

# AJAY PRAJAPAT

Head of Engineering

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SCAN CV

## RESUME HEADLINE

Head of Engineering | Technology Strategy · Engineering Leadership · Platform Scale · AI Adoption

## SHORT PROFESSIONAL BIO

Head of Engineering profile with 12+ years of hands-on software engineering, architecture, AI systems, and product delivery experience across SaaS, logistics, FinTech, Industrial IoT, EdTech, and AI-enabled platforms. This CV is tailored for leadership-focused roles requiring engineering organization leadership, delivery operating model, hiring, team structure, architecture oversight, and business-aligned execution, with enough builder depth to keep strategy realistic and implementation-ready. Ajay brings senior technical judgment across fullstack architecture, backend systems, frontend platforms, cloud delivery, DevOps, security, observability, and production AI systems. For Head of Engineering opportunities, the emphasis is on converting ambiguous business and product goals into clear technical direction, practical roadmaps, stronger teams, and durable platform decisions. A leadership-focused Head of Engineering CV focused on engineering organization leadership, delivery operating model, hiring, team structure, architecture oversight, and business-aligned execution, practical architecture judgment, leadership credibility, and hands-on system delivery depth. Help organizations turn technology ambition into coherent architecture, stronger execution, scalable teams, and AI-ready platforms that create durable business leverage. Primary stack experience: JavaScript / TypeScript (11-12 years); Node.js / NestJS (9-10 years); Agentic AI / GenAI (3+ years). 3+ years of hands-on Agentic AI, LLM, AI automation, and GenAI experience designing RAG, tool-calling, retrieval, orchestration, multi-agent workflows, and AI-enabled product experiences.

## VARIANT FOCUS

### BEST FOR

Head of Engineering, senior technology leadership, architecture leadership, engineering strategy, and scale-stage product/platform roles.

### PRIMARY KEYWORDS

Head of Engineering

Engineering Leadership

Technology Strategy

Organization Design

Delivery Governance

Platform Architecture

AI Adoption

Stakeholder Alignment

## KEY SKILLS

### PRIMARY STACK TENURE

JavaScript / TypeScript (11-12 years), Node.js / NestJS (9-10 years), Agentic AI / GenAI (3+ years)

### DELIVERY

AWS, Azure, Docker, Kubernetes, CI/CD, Observability, Performance Optimization

### CTA FOCUS

Open Head of Engineering CV, review leadership and architecture case studies, contact for leadership-focused technology roles

### SIGNATURE PROJECTS

Agentic Business Operating System (BizXOS / BizlyUp)

GenAI Hiring & Expert Marketplace (GenAIxperts)

AI Documentation & Knowledge Intelligence (InteraDoc)

Enterprise SaaS Platform (Multi-Tenant)

### ARCHITECTURE

System Design, API Design, Microservices, Distributed Systems, Event-Driven Architecture, Domain-Driven Design (DDD)

### AI / AUTOMATION

Agentic AI / GenAI (3+ years), RAG, Tool Calling, LangChain, LangGraph, OpenAI APIs, Anthropic Claude

## JD-ALIGNED SKILLSETS

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### PRIMARY LANGUAGE / FRAMEWORK TENURE

JavaScript / TypeScript (11-12 years), Node.js / NestJS (9-10 years), Agentic AI / GenAI (3+ years)

### ARCHITECTURE

System Design, API Design, Microservices, Distributed Systems, Event-Driven Architecture, Domain-Driven Design (DDD)

### AI / AUTOMATION

Agentic AI / GenAI (3+ years), RAG, Tool Calling, LangChain, LangGraph, OpenAI APIs, Anthropic Claude

### CORE COMPETENCIES

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#### UI Architecture

Designs maintainable frontend systems with reusable components, state boundaries, and scalable routing patterns.

#### Scalable Backend Systems

Builds modular services, background workflows, and integration layers that stay reliable as product and traffic complexity grow.

#### System Design & Architecture

Translates product and platform goals into service boundaries, deployment patterns, and maintainable technical direction.

#### Serverless Edge Platforms

Designs edge and serverless systems across Cloudflare Workers, Workers for Platforms, and AWS serverless services with reliability and cost efficiency in mind.

#### Cloud & DevOps Delivery

Improves release reliability through containerized delivery, deployment automation, and production-ready cloud operating patterns.

#### AI Integration & Automation

Integrates LLM, retrieval, and agentic workflows into production systems with guardrails, observability, and real business use cases.

### SEARCH OPTIMIZATION

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Emphasize advisory, modernization, platform strategy, executive technology leadership, and AI adoption terminology in the headline, summary, achievements, and project framing to improve discoverability for CTO and strategic leadership searches.

### ABOUT

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Ajay brings senior technical judgment across fullstack architecture, backend systems, frontend platforms, cloud delivery, DevOps, security, observability, and production AI systems. For Head of Engineering opportunities, the emphasis is on converting ambiguous business and product goals into clear technical direction, practical roadmaps, stronger teams, and durable platform decisions.

### KEY EXPERTISE AREAS

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Technology Strategy and Engineering Roadmaps

Engineering Organization Design, Hiring and Leadership Structure

Platform Architecture, Modernization and Scalability Planning

Delivery Governance, Operating Cadence and Cross-Functional Alignment

Security, Cloud, DevOps, Observability and Production Readiness Oversight

AI Adoption Strategy, GenAI Product Delivery and Agentic Automation

Technical Due Diligence, Vendor Evaluation and Architecture Review

Senior Stakeholder Communication and Engineering Leadership Enablement

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#### **CORE SKILLS**

Head of Engineering, Engineering Leadership, Technology Strategy, Organization Design, Delivery Governance, Platform Architecture, AI Adoption, Stakeholder Alignment, Angular, React, Vue.js, Next.js, TypeScript, Node.js, NestJS, Java, Spring Boot, Python, FastAPI, Go, PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ, AWS, Azure, Docker, Kubernetes, OpenAI APIs, Anthropic Claude, Azure OpenAI, LangChain, LangGraph, RAG, Tool Calling, Vector Search, Agentic AI, Microservices, Distributed Systems, Event-Driven Architecture, Observability, Security Architecture

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#### **TECHNOLOGIES**

Angular, React, Vue.js, Next.js, TypeScript, Node.js, NestJS, Java, Spring Boot, Python, FastAPI, Go, PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ, AWS, Azure, Docker, Kubernetes, Cloudflare Workers, Terraform, GitHub Actions, Jenkins, OpenTelemetry, OpenAI APIs, Anthropic Claude, Azure OpenAI, LangChain, LangGraph, RAG, Tool Calling, Vector Search, Agentic AI

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#### **INDUSTRIES SERVED**

Enterprise SaaS, AI-first products, business automation, logistics, FinTech, Industrial IoT, EdTech, internal platforms, and technology modernization.

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#### **MY MISSION AS PRINCIPAL ARCHITECT**

Help organizations turn technology ambition into coherent architecture, stronger execution, scalable teams, and AI-ready platforms that create durable business leverage.

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#### **PERSONAL BRAND POSITIONING**

A leadership-focused Head of Engineering CV focused on engineering organization leadership, delivery operating model, hiring, team structure, architecture oversight, and business-aligned execution, practical architecture judgment, leadership credibility, and hands-on system delivery depth.

## PROFESSIONAL EXPERIENCE

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### GenAI / Agentic AI Architect

Independent Platforms & Products

TECH: NESTJS, LANGCHAIN/LANGGRAPH, OPENAI, ANTHROPIC CLAUDE, AZURE, REDIS, VECTOR DBS, RAG, TOOL CALLING

GENAI / AGENTIC AI

2022 - PRESENT (3+ YEARS)

- Built 3+ years of hands-on Agentic AI and GenAI delivery experience since 2022, architecting NestJS and LangChain/LangGraph-based AI platform services for Claude/OpenAI-backed multi-agent product workflows.
- Integrated LLMs into daily engineering and product workflows through tool-calling, retrieval, prompt/tool orchestration, and AI-native automation patterns.
- Defined service boundaries, execution guardrails, state management, routing, and controlled tool-execution flows for AI-enabled backend platforms, improving production readiness in multi-tenant agent workflows.
- Standardized planner-executor-critic orchestration, Redis-backed memory, and observability patterns across multiple AI products, reducing repeated platform design effort and accelerating new workflow setup.
- Evaluated serverless and edge-aligned execution patterns, including Cloudflare Workers for Platforms-style deployment boundaries, for lightweight agent workflow delivery.

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### Senior Software Developer

Apple Inc -> Infosys -> Awign (contract)

TECH: NODE.JS, TYPESCRIPT, NESTJS, REACT, NEXT.JS, VUE.JS/NUXT.JS, KAFKA, KUBERNETES, AWS, CLOUDFLARE, AZURE EXPOSURE, CI/CD, OBSERVABILITY

PRODUCT ENGINEERING

2021 - PRESENT (5 YEARS)

- Defined Node.js and TypeScript service architecture across shared logistics and cloud services, establishing service boundaries and reliability patterns that supported distributed operations across multiple business domains and production workflows.
  - Led Kafka-based event and CQRS workflow design for shipment and cloud integrations, increasing processing throughput while isolating failures across asynchronous workflows and downstream service dependencies.
  - Applied Cloudflare DNS, caching, edge delivery, and Worker-oriented deployment patterns for web-facing platform surfaces, improving performance, rollout control, and operational consistency across client-facing environments.
  - Shipped reusable API contracts that cut cross-team integration friction and accelerated new service delivery across shared services and multiple teams.
  - Standardized CI/CD, observability, and containerized delivery patterns across shared platform services and deployment pipelines, creating a repeatable release model that improved production readiness and reduced manual release variance.
  - Designed AWS-hosted services with containerized and function-oriented execution patterns aligned to Lambda, API Gateway, queue-based processing, and stateless horizontal scale.
  - Shaped safe execution patterns for containerized build and automation workflows, including isolation boundaries and auditability for higher-risk generated or untrusted inputs.
  - Drove backend engineering standards for APIs, messaging, testing, logging, monitoring, performance optimization, and cost-aware reliability across platform and product teams.
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## Senior Software Developer

FINTECH

Pratishthan Ventures -> Infosys (FullTime)

OCT 2021 - MAR  
2022

TECH: NODE.JS, TYPESCRIPT, REDIS, RABBITMQ, NODE-RED, MONGODB,  
LOGGING, MONITORING

- Architected Node.js payment services with Redis, RabbitMQ, and MongoDB for transaction, settlement, and audit workflows, improving reliability and traceability across production payment operations in a regulated financial environment.
- Designed asynchronous recovery and failure-handling pipelines for settlement workflows, limiting transaction failure blast radius and improving recoverability across critical payment operations.
- Built FX, audit, and calendar services with clear service boundaries and reliable backend patterns, improving maintainability for compliance-sensitive financial systems.
- Introduced structured logging and monitoring patterns across shared payment services, improving operational visibility and accelerating root-cause analysis for transaction issues.

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## Software Architect / Senior Full-Stack Developer

INDUSTRIAL IOT

Smart Factory

AUG 2019 - SEP  
2021

TECH: ANGULAR 9+, NESTJS, NODE.JS, AWS (EC2/S3/ELB), DOCKER, JWT, WEBSOCKET,  
MONITORING, ALERTS

- Led backend and telemetry architecture for real-time industrial monitoring systems, improving visibility across machine telemetry flows and enabling faster detection of production-floor issues in live manufacturing operations.
- Designed NestJS APIs, WebSocket telemetry services, and Dockerized AWS workloads for real-time monitoring systems, improving response behavior and making production deployments more consistent.
- Implemented monitoring, alerting, and logging workflows that improved incident response readiness and strengthened uptime support for operational teams.
- Established maintainable data-flow and dashboard-integration patterns that improved reliability across backend and frontend delivery for industrial systems.

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## Software Engineer / Project Manager

IOT / STREAMING

Neon TSS

OCT 2017 - AUG  
2019

TECH: RASPBERRY PI, PHP, HTML, NODE.JS, NESTJS, ANGULARJS, ANGULAR 2+,  
MYSQL, HLS

- Led Wi-Fi streaming platform delivery across firmware and cloud services, coordinating backend, device, and frontend engineering through repeated production release cycles.
  - Drove migration from PHP/HTML components to Node.js/NestJS and Angular-based applications, improving maintainability and creating a more scalable delivery foundation.
  - Improved streaming stability and security through authentication, service hardening, and backend modernization patterns, reducing recurring playback and access issues.
  - Bridged hardware-aware delivery with backend and frontend architecture for production video streaming use cases.
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## Technical Research Assistant (TRA)

ACADEMIC R&D

GITS

2015 - 2017

TECH: NODE.JS, ANGULAR/REACT, MONGODB, GRAPHQL, RASPBERRY PI

- Built backend and web prototypes for ERP, LMS, IoT, and content-delivery systems, expanding applied architecture depth across institutional platforms.
- Implemented Node.js and Angular/React proof-of-concepts that accelerated experimentation for research-led deployment scenarios.
- Supported API, data, and device integration patterns for academic and IoT systems with practical production constraints.
- Strengthened distributed-system thinking through research-led prototyping and applied systems development.

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## Trainer

TRAINING /  
MENTORSHIP

SC Classes

2013 - 2015

TECH: PROGRAMMING FUNDAMENTALS, SOFTWARE DEVELOPMENT  
TRAINING, MENTORSHIP

- Delivered programming and software development training for students and early-career learners.
- Created structured coding exercises and project-based modules.
- Mentored learners to improve problem-solving and coding confidence.

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## .NET Developer

.NET DEVELOPMENT

VHS Technologies

2012 - 2013

TECH: .NET, C#, SQL

- Developed and maintained .NET modules for business workflows.
- Implemented backend logic and SQL data integrations.
- Supported bug fixes and incremental feature delivery for internal applications.

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## TECHNICAL SKILLS & CORE COMPETENCIES

### Primary Stack Tenure:

JavaScript / TypeScript (11-12 years), Node.js / NestJS (9-10 years), Agentic AI / GenAI (3+ years)

### Delivery:

AWS, Azure, Docker, Kubernetes, CI/CD, Observability, Performance Optimization

### Architecture:

System Design, API Design, Microservices, Distributed Systems, Event-Driven Architecture, Domain-Driven Design (DDD)

### AI / Automation:

Agentic AI / GenAI (3+ years), RAG, Tool Calling, LangChain, LangGraph, OpenAI APIs, Anthropic Claude

## ACHIEVEMENTS & IMPACT

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- Shaped modernization and platform direction by translating business goals into pragmatic technical roadmaps, architecture priorities, and execution plans. Signature examples include Agentic Business Operating System (BizXOS / BizlyUp) and GenAI Hiring & Expert Marketplace (GenAIxperts).
- Reduced delivery risk by aligning architecture decisions, operating models, and platform investment with the needs of scaling teams and products. Added 3+ years of LLM, Agentic AI, AI automation, GenAI, Cloudflare Workers, serverless architecture, edge computing, secure sandboxing, and multi-tenant platform engineering experience across product, platform, and enablement contexts.
- Brought builder-level technical depth into advisory conversations so roadmap recommendations remained implementable, credible, and cost-aware.
- Positioned engineering foundations for scale through governance, platform strategy, and clearer decision-making across teams and stakeholders.

## TECHNOLOGY STACK

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### Primary Stack Tenure:

JavaScript / TypeScript (11-12 years), Node.js / NestJS (9-10 years), Agentic AI / GenAI (3+ years)

### Delivery:

AWS, Azure, Docker, Kubernetes, CI/CD, Observability, Performance Optimization

### Architecture:

System Design, API Design, Microservices, Distributed Systems, Event-Driven Architecture, Domain-Driven Design (DDD)

### AI / Automation:

Agentic AI / GenAI (3+ years), RAG, Tool Calling, LangChain, LangGraph, OpenAI APIs, Anthropic Claude

## PROJECTS

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Representative projects across ERP, IoT, enterprise platforms, and GenAI/Agentic AI systems.

## ROLE

Senior Software Developer (Apple Inc -> Infosys -> Awign (contract))

## PROJECT SCOPE

Enterprise logistics platform for shipment workflows, tracking, and operations visibility with distributed services, event-driven processing, domain-aligned service boundaries, and customer-facing status journeys.

## TECH STACK

Angular, React, Next.js, Spring Boot, Node.js, TypeScript, PostgreSQL, Redis, Kafka, Docker, Kubernetes, AWS, OpenTelemetry

## TECH HIGHLIGHTS

Angular React Next.js Redis Kafka AI Event-Driven

## KEY CONTRIBUTIONS

- Designed shipment lifecycle APIs and backend service flows covering the core order-to-delivery workflow, using clear bounded contexts and maintainable service contracts for business-critical logistics operations.
  - Delivered Angular and React workflow surfaces for logistics operations, aligning UI behavior with backend service contracts to improve tracking accuracy and reduce integration drift across operational dashboards.
  - Built Next.js customer shipment-visibility flows on top of event-driven backend contracts, improving consistency between internal operations state and customer-facing status journeys.
  - Introduced Redis caching and containerized deployment patterns across logistics services, improving API responsiveness and creating a more repeatable runtime model for Kubernetes-based operations.
  - Integrated Kafka and queue-driven processing to increase shipment-event throughput, improve traceability, and strengthen operational reliability during peak logistics activity.
  - Established structured logging and traceable event flows across logistics integrations, improving diagnosability and making multi-service shipment workflows easier to operate at scale.
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## Agentic Business Operating System (BizXOS / BizlyUp)

AGENTIC AI — 2022-2026

### ROLE

GenAI Architect / Agentic AI Developer

### PROJECT SCOPE

Autonomous business operations with Claude/OpenAI-backed multi-agent orchestration.

### TECH STACK

NestJS, LangChain, LangGraph, Anthropic Claude, OpenAI APIs, Redis, RAG, Tool Calling, Audit Logs

### TECH HIGHLIGHTS

NestJS

Redis

Cloudflare

Cloudflare Workers

AI

LangChain

LangGraph

OpenAI

### KEY CONTRIBUTIONS

- Designed planner, executor, and critic agent patterns with Claude/OpenAI model routing, tool-calling, Redis-backed working memory, and AI-native development workflows integrated into daily engineering.
- Built a secure orchestration layer in NestJS, LangChain, and LangGraph for controlled agent execution, audited actions, human-review checkpoints, and production automation.
- Designed execution guardrails, state transitions, and routing patterns for agentic workflows in multi-tenant environments so business automation remained observable, governable, and safer for operations, support, and content workflows.
- Evaluated edge-deployed and serverless-oriented execution patterns, including Cloudflare Workers for Platforms-style runtime boundaries, for lighter agent workflow delivery.

## AI Branding & Content Automation (BrandlyUp AI)

GENAI — 2022-2026

### ROLE

GenAI Product Architect

### PROJECT SCOPE

AI-driven branding and marketing automation.

### TECH HIGHLIGHTS

AI

### KEY CONTRIBUTIONS

- Agents for brand voice analysis, campaign planning, and content generation.
- Automated 90-day content calendars for multi-platform publishing.

## AI-Powered Quiz & Adaptive Learning (ScanQuizzy AI)

GENAI / EDTECH — 2022-2026

### ROLE

GenAI Engineer

### PROJECT SCOPE

AI-based quiz generation and adaptive learning.

### TECH HIGHLIGHTS

AI

LLM

OCR

### KEY CONTRIBUTIONS

- OCR + LLM pipelines for PDFs/images/handwritten notes.
- Adaptive difficulty and personalized learning paths.

## Agentic IT Support Automation (LocalITCare AI)

AGENTIC AI — 2022-2025

### ROLE

Agentic AI Solution Architect

### PROJECT SCOPE

Claude/OpenAI-backed AI agents automating IT support triage and routing.

### TECH STACK

NestJS, LangChain, Anthropic Claude, OpenAI APIs, Tool Calling, Ticket Triage, RAG

### TECH HIGHLIGHTS

AI OpenAI

### KEY CONTRIBUTIONS

- Built issue classification, RCA, technician-routing, and recommendation agents with controlled tool use and auditable support decisions.
- Used Claude/OpenAI-backed reasoning flows to provide dispatch-ready recommendations before technician assignment, reducing MTTR and manual triage effort.

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## AI Documentation & Knowledge Intelligence (InteraDoc)

GENAI — 2022-2025

### ROLE

GenAI Platform Architect

### PROJECT SCOPE

AI-powered documentation ingestion and Q&A.

### TECH STACK

NestJS, LangChain, OpenAI APIs, Anthropic Claude, RAG, Vector Search, Document Ingestion, Access Control

### TECH HIGHLIGHTS

AI LangChain OpenAI RAG

### KEY CONTRIBUTIONS

- Built LangChain-based RAG pipelines over code, documents, and diagrams with controlled access patterns and Claude/OpenAI response generation options.
  - Designed context-aware Q&A experiences for onboarding, support, and internal knowledge retrieval.
  - Improved discoverability of technical knowledge by organizing ingestion, retrieval, and response quality around real team workflows.
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## GenAI Hiring & Expert Marketplace (GenAIXperts)

GENAI — 2022-2025

### ROLE

GenAI Solution Architect

### PROJECT SCOPE

AI-driven talent matching and screening.

### TECH STACK

NestJS, OpenAI APIs, LangChain, RAG, Semantic Search, Resume Parsing, AI Workflows

### TECH HIGHLIGHTS

AI LLM RAG

### KEY CONTRIBUTIONS

- Implemented LLM resume parsing, semantic search, RAG pipelines, tool-calling workflows, and AI-generated interview question automation.
- Designed matching flows that improved relevance between talent profiles, roles, and expert discovery journeys.
- Reduced manual screening effort through AI-assisted ranking, structured extraction, recruiter support workflows, and rapid product experimentation.

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## AWS Infrastructure Management

CLOUD INFRASTRUCTURE — 2021-2023

### ROLE

Senior Software Developer (Apple Inc -> Infosys -> Awign (contract))

### PROJECT SCOPE

Cloud infrastructure management platform for secure provisioning, governance, environment operations, and cloud delivery workflows across AWS-first environments with Azure-aligned deployment considerations.

### TECH STACK

Angular, Vue.js/Nuxt.js, Spring Boot, Node.js, PostgreSQL, Redis, Docker, Kubernetes, AWS, Azure, Cloudflare, Cloudflare Workers, CI/CD

### TECH HIGHLIGHTS

Node.js Angular Vue.js Nuxt.js Redis AWS Docker Spring Boot

### KEY CONTRIBUTIONS

- Developed Spring Boot and Node.js services to automate infrastructure provisioning, governance workflows, and internal platform operations across shared non-production and production environments.
  - Built Angular dashboards and Vue.js/Nuxt.js admin views for environment visibility, access workflows, and infrastructure operations.
  - Integrated AWS services (EC2, S3, IAM, Load Balancer) with PostgreSQL and Redis-backed orchestration while keeping cloud service abstractions portable for broader platform delivery.
  - Used Cloudflare DNS, edge routing, caching, and Worker-oriented deployment patterns to improve delivery performance, environment isolation, and operational control for web-facing platform surfaces.
  - Implemented Docker- and Kubernetes-oriented deployments with CI/CD guardrails (GitHub Actions, Jenkins) to improve release reliability and reduce manual deployment effort across platform operations.
  - Helped standardize operational flows so cloud changes were more controlled, observable, and easier to support across environments.
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## Banking Payment Processing System

FINTECH — 2021-2022

### ROLE

Senior Software Developer

### PROJECT SCOPE

Event-driven payment processing platform with auditability, resilient workflows, and domain-centric transaction services.

### TECH STACK

Node.js, TypeScript, MongoDB, Redis, RabbitMQ, Node-RED, OE-Cloud, Logging, Monitoring

### TECH HIGHLIGHTS

Node.js MongoDB Redis RabbitMQ Node-RED AI Event-Driven

### KEY CONTRIBUTIONS

- Engineered Node.js payment services with RabbitMQ and Node-RED for event-driven, fault-tolerant processing across transaction, FX, settlement, and audit-related financial workflows.
- Built FX, holiday-calendar, and audit modules with MongoDB and Redis-backed workflows for resilient service operations and clearer domain separation.
- Improved transaction traceability through auditable event pipelines, service-level logging, and asynchronous processing patterns aligned to CQRS-style flows, reducing manual investigation effort during issue analysis.
- Strengthened reliability of high-volume payment operations through resilient integration, monitoring-conscious implementation, and recovery-oriented workflows.
- Contributed to backend patterns that prioritized traceability, controlled failure handling, and dependable financial processing.

## CI/CD & Deployment Automation

DEVOPS — 2021-2022

### ROLE

Solution Architect

### PROJECT SCOPE

Automated pipelines for build, test, deployment, and release governance across distributed services.

### TECH STACK

Jenkins, AWS CodeDeploy, GitLab CI, Docker, Cloudflare Workers/Pages, Release Automation

### TECH HIGHLIGHTS

AWS Docker Jenkins GitLab CI Cloudflare

### KEY CONTRIBUTIONS

- Standardized Jenkins, AWS CodeDeploy, GitLab CI, and Docker-based delivery pipelines for repeatable releases across shared services and backend environments.
- Added Cloudflare-oriented deployment paths for edge-hosted web surfaces, including DNS coordination, cache-aware releases, and Worker/Pages delivery considerations.
- Reduced deployment errors, manual handoffs, and release friction by replacing ad hoc release steps with consistent build, validation, and deployment workflows.
- Improved delivery governance by formalizing build, validation, and deployment workflows.
- Supported engineering teams with more predictable release mechanics and stronger deployment discipline.

## Enterprise SaaS Platform (Multi-Tenant)

SAAS — 2021-2022

### ROLE

Software Architect / Senior Full-Stack Developer

### PROJECT SCOPE

Multi-tenant SaaS with tenant isolation, service-oriented APIs, edge-aware delivery, and AWS-hosted scalable delivery.

### TECH STACK

Angular, NestJS, Node.js, AWS, Cloudflare, Cloudflare Workers, Azure Exposure, Docker, Kubernetes, RBAC APIs, CI/CD

### TECH HIGHLIGHTS

NestJS Angular AWS Docker Cloudflare AI

### KEY CONTRIBUTIONS

- Built tenant-aware Angular and NestJS modules for enterprise SaaS workflows.
- Designed RBAC APIs, tenant isolation patterns, and maintainable service boundaries to support secure multi-tenant operations with DDD-aligned modularity.
- Deployed Dockerized services on AWS (EC2, S3, IAM, Load Balancer) with container orchestration readiness for scalable delivery.
- Applied Cloudflare edge delivery, DNS, and Worker-oriented patterns for faster static/API-adjacent routing, safer rollout control, and stronger client-facing performance.
- Standardized release pipelines and deployment workflows to reduce delivery friction across client environments.
- Helped shape a platform structure that balanced tenant customization, governance, and long-term maintainability across backend and frontend teams.

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## Backendless REST & WebSocket Platform

API PLATFORM — 2020-2021

### ROLE

Backend Architect

### PROJECT SCOPE

Unified REST and WebSocket platform for multiple clients with reusable backend building blocks and real-time communication support.

### TECH STACK

NestJS, Express.js, MongoDB, JWT, WebSockets, API Templates

### TECH HIGHLIGHTS

NestJS JWT WebSocket AI

### KEY CONTRIBUTIONS

- Designed a reusable NestJS and Express-based backend platform to accelerate delivery across multiple client implementations with shared authentication, API, and real-time communication patterns.
  - Implemented JWT-secured REST APIs, reusable API templates, and standardized backend patterns for maintainability.
  - Enabled WebSocket channels for real-time communication use cases across shared backend services.
  - Reduced repeated backend setup work by turning common API concerns into reusable platform components and conventions adopted as the default starting point for new implementations.
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## Dynamic Configurable Server

PLATFORM — 2020-2021

### ROLE

Software Architect

### PROJECT SCOPE

Configuration-driven backend platform with RBAC/ABAC and controlled operational flexibility.

### TECH STACK

NestJS, MongoDB, Feature Toggles, RBAC, ABAC

### TECH HIGHLIGHTS

NestJS

MongoDB

AI

### KEY CONTRIBUTIONS

- Architected a NestJS and MongoDB server that supported feature toggles, permissioned changes, and policy-driven behavior.
  - Created maintainable patterns for controlled configuration updates without requiring frequent backend code changes.
  - Reduced turnaround for enterprise change requests while preserving governance and access control.
  - Improved platform adaptability by separating business configuration concerns from core service implementation.
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## User-Admin Management System

ACCESS CONTROL — 2020-2021

### ROLE

Software Architect / Lead Developer

### PROJECT SCOPE

Enterprise admin and user management platform with fine-grained permissions, governance, and multi-tenant readiness.

### TECH STACK

Angular Material, NestJS, RBAC, ABAC, Multi-Tenant Patterns

### TECH HIGHLIGHTS

NestJS

Angular

Angular Material

AI

### KEY CONTRIBUTIONS

- Built Angular Material and NestJS modules for enterprise-grade administration, access management, and policy enforcement.
  - Implemented RBAC and ABAC enforcement patterns to support scalable authorization and governed operations.
  - Created reusable admin components and multi-tenant-ready backend patterns for later platform expansion.
  - Established a stronger foundation for secure user lifecycle management across enterprise workflows and internal platforms.
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## Industrial IoT Monitoring Dashboard

INDUSTRIAL — 2019-2020

### ROLE

Frontend Architect / Full-Stack Developer

### PROJECT SCOPE

Real-time packaging machine monitoring with alerts.

### TECH STACK

Angular, NestJS, Node.js, REST APIs, WebSockets, AWS, Docker, Monitoring, Logging

### TECH HIGHLIGHTS

Angular

WebSocket

AI

### KEY CONTRIBUTIONS

- Built Angular dashboards for real-time monitoring of packaging line performance.
- Integrated REST and WebSocket data streams for live machine health, asynchronous telemetry handling, and downtime visibility.
- Implemented threshold-based alerting, centralized operational visibility, configurable charts, and monitoring-friendly telemetry flows for faster response.
- Improved incident detection and response times on production floors through observability-focused monitoring flows.
- Supported maintainable backend and UI patterns for operational analytics in industrial production environments.

## Video Streaming App & Wi-Fi Device

IOT / VIDEO — 2018-2019

### ROLE

Sr. Software Developer

### PROJECT SCOPE

Wi-Fi streaming hardware with cloud backends.

### TECH HIGHLIGHTS

PHP

MySQL

Angular

JWT

Raspberry Pi

### KEY CONTRIBUTIONS

- Raspberry Pi firmware; Angular frontends; NodeJS/PHP backends with MySQL and HLS.
- JWT auth and load balancing scripts for streaming reliability.

## AIR-PRO IoT Air Quality Monitoring

IOT — 2017

### ROLE

IoT & Full-Stack Developer

### PROJECT SCOPE

Air quality monitoring with Raspberry Pi and sensors.

### TECH HIGHLIGHTS

Node.js

Raspberry Pi

AI

### KEY CONTRIBUTIONS

- Node.js REST ingestion, live dashboards, and alerts.
- Threshold-based monitoring for abnormal AQ levels.

## NPTEL Video Content Delivery

CONTENT DELIVERY — 2017

### ROLE

Backend Developer

### PROJECT SCOPE

Secure NPTEL video access with tracking and reports.

### TECH HIGHLIGHTS

PHP

MySQL

### KEY CONTRIBUTIONS

- PHP/MySQL auth and controlled content access.
  - Usage monitoring and faculty-level reporting.
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## Welding LMS (US Client)

EDTECH — 2017

### ROLE

Full-Stack Developer

### PROJECT SCOPE

Web LMS with advanced quiz engine and admin CMS.

### TECH HIGHLIGHTS

PHP

MySQL

### KEY CONTRIBUTIONS

- PHP/MySQL with Bootstrap/Materialize UI.
  - Quiz engine (image/boolean/multi-select) and learner reporting.
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## Campus ERP with Dynamic Query Engine (JSON-Based Dynamic)

ERP — 2015-2017

### ROLE

Full-Stack Developer / Solution Designer

### PROJECT SCOPE

JSON-based dynamic ERP backend generating SQL queries and business logic from configuration.

### TECH HIGHLIGHTS

MySQL

Node.js

### KEY CONTRIBUTIONS

- Node.js + MySQL engine with reusable CRUD/report services.
  - Feature changes through JSON configuration without redeploys.
- 

## Job Portal Web Application

WEB — 2014

### ROLE

Full-Stack Web Developer

### PROJECT SCOPE

Two-sided job portal for candidates and recruiters.

### TECH HIGHLIGHTS

PHP

MySQL

### KEY CONTRIBUTIONS

- PHP/MySQL backend with RBAC, validation, and moderation.
  - Built complete UI with secure registration and job workflows.
-

## Campus Management ERP System

ERP — 2013-2014

### ROLE

*Full-Stack Developer*

### PROJECT SCOPE

Campus ERP spanning fees, exams, academics, and admin.

### TECH HIGHLIGHTS

VB.NET

SQL Server

### KEY CONTRIBUTIONS

- Modular VB.NET + SQL Server components with optimized queries.
  - Admin dashboards and consistency across departments.
- 

## School Management ERP System

ERP — 2013

### ROLE

*Software Developer*

### PROJECT SCOPE

Desktop ERP for student records, attendance, exams, and staff data.

### TECH HIGHLIGHTS

VB.NET

SQL Server

### KEY CONTRIBUTIONS

- VB.NET + SQL Server with normalized schemas and role-based modules.
- Result calculation, attendance tracking, and reporting with validation.

## EDUCATION

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Academic foundation and milestones supporting software engineering and AI-driven product development.

### **MCA, ISBM University**

2025 - PURSUING

Master of Computer Applications (ongoing).

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### **MCA-AI (Dropped Out), Amrita University**

2021-2023

Discontinued MCA-AI program with specialization in AI and Data Science.

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### **MCA (Dropped Out), GITS**

2015-2017

Discontinued MCA program; First Prize in Programming Competition (Pragyan-2015).

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### **BCA, BNPG College**

2010-2012

4th Position in Programming Competition in 1st Year.

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### **12th, Fateh Sr. Secondary School, Udaipur**

2007-2008

Mathematics Topper and Best Student honoured by school.

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### **10th, Vidhya Niketan Sr. Secondary School, Udaipur**

2005-2006

Judo.

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## SPEAKING & MENTORSHIP

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Enterprise-ready speaking, mentoring, and capability-building programs for engineering teams and technology leaders.

### **Speaking Themes**

Principal Architect Playbook: from system vision to production delivery.

Applied GenAI and Agentic AI for enterprise workflows.

Architecture governance, scalability patterns, and technical strategy.

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### **Training Programs**

Architecture-first engineering programs for product and platform teams.

Hands-on workshops in Angular, NestJS, Node.js, and cloud-native delivery.

AI architecture tracks covering RAG, agent orchestration, and safety guardrails.

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### **Mentorship Focus**

One-on-one guidance for engineers moving into architect and lead roles.

System design reviews with clear tradeoffs, performance, and security lenses.

Career acceleration through portfolio strategy and architecture storytelling.

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### **Consulting & Advisory**

Executive briefings for AI adoption roadmaps and enterprise architecture shifts.

Technical due diligence for platform modernization and product scalability.

Capability-building plans for teams adopting AI and automation initiatives.

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#### **POSITIONING HIGHLIGHTS**

Speaker profile aligned for conferences, enterprise forums, and technical communities.

Mentor mindset with practical frameworks teams can implement immediately.

Training and consulting formats designed for startup speed and enterprise rigor.

#### **TECHNICAL WRITING & INSIGHTS**

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*Author of technical essays on architecture and engineering leadership, including:*

- Architecture-First Development
  - The Hidden Cost of Technical Debt
  - Applied AI vs. AI Research
  - Microservices: When and Why
  - Data Pipelines for Machine Learning
  - Engineering for Scale
  - Agentic AI: Beyond Chatbots
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