

Kushal Kumar

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SUMMARY

Full Stack Engineer with 2+ years shipping production SaaS platforms used by enterprise clients, specializing in event-driven architectures, AI/LLM integrations, and scalable REST APIs on AWS. Delivered end-to-end features — from serverless pipelines processing 500+ documents daily to RAG-powered AI assistants — with a track record of owning systems that run reliably at scale.

TECHNICAL SKILLS

Languages & Runtime: TypeScript, JavaScript, Node.js, SQL

Frontend: React.js, Next.js, Tailwind CSS, ShadCN, React Native

Backend & APIs: Express.js, Hono, Prisma ORM, REST, Microservices, WebSockets, SSE

AI / Agents: LangChain, LangGraph, RAG, Vector Embeddings, Qdrant, ChromaDB, Gemini API, Tool Calling

Databases: PostgreSQL, MongoDB, Redis

Cloud DevOps: AWS (Lambda, S3, SQS, EC2, DynamoDB, Api Gateway), Docker, GitHub Actions CI/CD, Vercel

PROFESSIONAL EXPERIENCE

Full Stack Engineer, AMUS SOFT - Software Development & IT Consulting Jan 2024 – Present

- Architected an event-driven serverless pipeline on AWS Lambda, SQS, and S3 that ingests and processes 500+ documents daily with automated retry logic, reducing manual processing overhead by 80%.
- Built an internal RAG-powered AI knowledge assistant using LangChain and Qdrant, enabling semantic search across 10,000+ business documents and cutting average research time by 60%. a multi-tenant employee tracking platform with JWT-based auth, role-based access control, and real-time WebSocket status monitoring — now used across 3 enterprise client organizations.
- Launched a scalable ticketing SaaS platform supporting live task assignment, multi-role dashboards, and workflow automation, reducing ticket resolution time by 35%. modular REST APIs using Node.js, Prisma ORM, and PostgreSQL following microservices architecture, enabling independent scaling of 6+ services with zero cross-service downtime.
- Implemented CI/CD pipelines using GitHub Actions and Docker, cutting deployment time from 45 minutes to under 8 minutes and eliminating manual deployment errors across staging and production.

React Developer Intern, iMeet Technology June 2023 – July 2023

- Refactored 4 core frontend components for scalability and deployment readiness, improving Lighthouse performance scores by 22% and reducing bundle size by 15%.

PROJECTS

AI Software Team – Autonomous Multi-Agent Engineering Runtime [Github Link](#) | [Live Demo](#)

- Architected a 10-agent autonomous software engineering runtime using LangGraph StateGraph with conditional routing, agent handoffs, and checkpointing — enabling end-to-end task execution from intent classification to validated code changes.
- Engineered a persistent semantic memory system using ChromaDB vector embeddings that learns repository architecture, framework conventions, and engineering patterns across executions — reducing repeated context retrieval by 70%.
- Built a real-time orchestration layer using Server-Sent Events (SSE) streaming live agent activity, tool calls, terminal diffs, and human-approval gates to an interactive ReactFlow graph visualization in the frontend.

IntervueIQ - AI Powered Interview Assistant [Github Link](#) | [Live Demo](#)

- Built a full-stack AI interview prep platform using Next.js, TypeScript, Tailwind CSS, and ShadCN; integrated Google Gemini API to generate adaptive interview questions and automated feedback, serving 200+ beta users.
- Integrated payments and real-time AI-driven interview simulations with automated feedback generation.

EDUCATION

Chartered Institute of Technology, B.Tech in Computer Science June 2021 – May 2025

- GPA: 8.54/10.0