

Ashutosh Jha

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Summary

Software Engineer with 3.5+ years building production AI systems, large-scale data pipelines, and full-stack platforms.

Skills

Languages: TypeScript, JavaScript, Python, Go, Java, SQL

AI/ML: LLMs, RAG, AI Agents, Prompt Engineering, Evals, Embeddings, Vector Search, Anthropic Claude / OpenAI / Gemini APIs, LangChain, LangGraph, MCP

Backend: Node.js, Express.js, NestJS, FastAPI, Django, Go (Gin), REST APIs, GraphQL, WebSockets, Microservices

Frontend: React.js, Next.js, React Native, Redux, Zustand, React Query, TailwindCSS

Databases: PostgreSQL, MySQL, MongoDB, Redis, pgvector, Supabase, Prisma ORM

Cloud & DevOps: Google Cloud Platform, AWS, Docker, Kubernetes, CI/CD, GitHub Actions, Linux

Experience

Software Engineer

Jan 2026 – Present

Insitu Energy

Bengaluru, India

- Architected a **config-driven, 7-stage multi-agent discovery pipeline** integrating LLMs, RAG, embeddings, and vector search for retrieval and ranking, with **eval-driven iteration** and guardrails (Python, FastAPI)
- Deployed multi-tenant, full-stack platforms (Next.js, React, Supabase, PostgreSQL) on **Google Cloud Run** with CI/CD and background workers
- Engineered resilient, resumable **async data pipelines** with rate limiting, retries, and observability, loading datasets into **vector stores** for semantic search

Software Engineer

Jun 2025 – Jan 2026

South Park Commons

Bengaluru, India

- Developed **AI member-matching bots** for Slack and WhatsApp (GPT-4) serving **500+ members**, cutting member lookup time by **50%**
- Shipped a **browser extension** from scratch for member sourcing, adopted across the community within its first week
- Built an **AI-driven discovery engine** using semantic embeddings to rank and surface relevant member matches
- Maintained the **MinusOne** writing platform, shipping updates that improved engagement for **1000+ writers**

Developer Relations Engineer

Jan 2024 – Jun 2025

Transak

Bengaluru, India

- Authored **50+ SDK integration samples** across React, React Native, and Flutter, cutting partner integration time from **4 hours to 2 hours**
- Launched the **Transak Playground** (40+ configs) for zero-code testing, reducing support tickets by **30%**
- Revamped developer documentation, reducing time-to-first-transaction by **25%** for **1000+ developers**

Software Engineer

Dec 2022 – Dec 2023

CubeAPM

Remote

- Developed **real-time monitoring APIs** in Go (Gin) and Node.js, processing **100K+ events per minute** at sub-200ms latency
- Refactored **10K+ lines** of legacy code, improving page load from **4.5s to 1.8s (60%)**, and built a 50+ component React design system

Projects

Request Layer | *Python, FastAPI, Redis* | 1st Place, Nasiko Labs Buildthon

- Designed a resilient request layer between the gateway and agent fleet: a **3-tier cache** (exact, semantic, router-decision) with sub-20ms hits and an in-flight coalescer collapsing concurrent duplicate calls
- Added **cost-aware (\$/min) rate limiting** and a 3-lane priority queue for stable overload handling, with per-request observability via Phoenix tracing

Signal | *Python, TypeScript, FastAPI, Next.js*

- Engineered an **identity and governance layer for AI agents**: every action wrapped in a signed, verifiable envelope, policy-gated before execution, with Python/TypeScript SDKs and MCP/A2A middleware

Evolv | *Python, FastAPI, Next.js, SBERT, HDBSCAN* | 1st Place, Portkey AI Builder Challenge

- Implemented an **AI prompt-management system** treating prompts as versioned genetic sequences, with semantic clustering (SBERT, HDBSCAN) and template synthesis

NeverLose | *TypeScript, Next.js, LLMs* | Finalist (Top 5 / 90+), Pine Labs AI Hackathon

- Created an **AI sales agent** that converts hesitant buyers through real-time intent detection and guided, context-aware conversation flows

Achievements

- LeetCode**: 855+ problems solved (132 Hard), Top 5% globally
- Open Source**: Contributor to Kubernetes SIGs, Vite, Optimism, Kestra, and Meshery

Education

Bachelor of Technology in Computer Science Engineering

Aug 2019 – Jun 2023

Lakshmi Narain College of Technology, Bhopal, India

CGPA: 8.61/10.0