

MAYUR ATHAVALE

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SUMMARY

Software Engineer with 1+ year building production AI and platform systems at a startup. Strong in TypeScript, Python, Go, and AWS. Architected a **production RAG copilot** with LangGraph (hybrid search, multi-model, streaming APIs) deployed on AWS ECS — drove **200%+ lead growth** and **100+ ICP customers**. Built multi-tenant GraphQL APIs, offline-first systems, and Terraform-managed cloud infrastructure.

EXPERIENCE

- Software Development Engineer** **Jan 2025 – Present**
Hyderabad, India
Zotok.ai (20-person engineering team)
 - Architected and shipped an **AI copilot** that attracted **100+ ICP customers**, increased daily sales leads by **200%+**, and drove enterprise demo bookings.
 - Built end-to-end **RAG pipeline**: designed OpenSearch indices, wrote **data ingestion workflows** for vector embeddings (1024-dim via AWS Bedrock), and implemented **hybrid retrieval (KNN + BM25)** for high-precision LLM context.
 - Engineered a **multi-graph LangGraph architecture** with modularized agent nodes following SOLID principles; implemented **4 streaming strategies** and a **model-switching layer** across GPT-4o-mini, Gemini Flash, and Flash Lite.
 - Self-hosted LangGraph on **AWS ECS** with FastAPI endpoints, **S3 + CloudFront CDN** for chatbot serving, and **Terraform-managed infrastructure** across ECS, RDS, SQS, SNS, DynamoDB, Amplify, and Secrets Manager.
 - Designed a **multi-tenant GraphQL layer** using **Hasura + NestJS** proxy with dynamic schema generation, query guards, and business logic middleware; built WhatsApp message flows via **SQS/SNS, DynamoDB Streams, Redington webhooks, and WAHA server**.
 - Led full-stack development of the **Typebot Builder** — designed complex multi-group connection UI with distinctive edge representations **in a single day**; built **Next.js 14 custom auth middleware**, user/workspace creation with **Prisma + MySQL RDS**, and **tRPC** handlers with complex Zod validation.
 - Built an **offline-first architecture** with Service Workers, custom caching, and background sync — reduced bundle from **100+ MB to 15 MB**; introduced **lazy chunking with Module Federation** cutting cold-start latency by **60%**; implemented a **custom priority queue** for offline-to-online sync handling **200+ queued API calls**.
 - Debugged production **Caddy server** stream-response choking via SSH into EC2; managed **EventBridge, Lambda, Firebase API** handlers, and **AWS Amplify** deployments for Next.js RSC apps; owned end-to-end CI/CD cutting release cycles by **35%**.
- Software Engineer** **May 2024 – December 2024**
Pune, India
Gramoday (AgriLinks Technologies) — 3-person engineering team
 - Built full-stack features for an agriculture community platform using **React, Next.js, TypeScript, and Node.js + PostgreSQL** (Prisma ORM) serving farmers, agronomists, and agri-business stakeholders.
 - Implemented async workflows using **AWS SQS and Lambda** for notifications, content moderation, and analytics; managed deployments on **AWS (EC2, S3)** with Docker.
 - Collaborated in a small team to rapidly iterate on MVP features for rural adoption, focusing on low-bandwidth usability and reliable content feeds.

PROJECTS & WRITING

PR Manager (Go, GitHub APIs, Actions) — CLI tool automating PR workflows: review assignment, merge queuing, and cross-platform binary releases.

Terminal Portfolio (Go, BubbleTea, AWS EC2) — Interactive TUI portfolio accessible over SSH with custom session handling.

Technical Articles — Secure Remote SSH via Self-Hosted VPN on AWS[↗] and other articles on system security, networking, and cloud infra.

TECHNICAL SKILLS

Languages: TypeScript, Python, Go, Rust, JavaScript, SQL, Bash

AI/LLM: LangGraph, LangSmith, AWS Bedrock, RAG Pipelines, Vector Embeddings, OpenSearch (KNN + BM25), Prompt Engineering, Multi-Agent Systems

Backend: Node.js, NestJS, FastAPI, Hasura, GraphQL, tRPC, Prisma, Zod, REST APIs, Streaming APIs

Infrastructure: AWS (ECS, EC2, S3, CloudFront, Amplify, RDS, SQS, SNS, DynamoDB Streams, EventBridge, Lambda, Secrets Manager, Bedrock), Terraform, Docker, Caddy, CI/CD

Frontend: React, Next.js 14 (SSR/RSC/Page Router), Service Workers, Module Federation, Redux Toolkit, Tailwind

Databases: PostgreSQL, MySQL, Redis, DynamoDB, MongoDB, OpenSearch, Firebase

Concepts: System Design (LLD/HLD), SOLID, Multi-Tenant Architecture, Event-driven Architecture, Offline-first Systems, Hybrid Search

EDUCATION

- College of Engineering Pune (COEP)** **2020 – 2024**
B.Tech in Mechanical Engineering