

# Aniruddha Chaudhary

## Software Engineer

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Multi-Disciplinary Software Engineer with 3+ years of experience across Full-Stack Development, DevOps, and AI.

### EXPERIENCE

**SOFTWARE TEAM LEAD (12/23 - Present)**

**Amus Soft**

**SOFTWARE ENGINEER (03/23 - 12/23)**

**Barcelona, Catalonia, Spain**

**Remote**

#### Cloud Infrastructure and DevOps

- Architected **custom CI/CD pipelines** for diverse project types (cross-platform mobile/desktop apps, servers, full-stack web frameworks, SPA's), enabling automated building and deployment to AWS.
- Managed AWS resources (VPC, EC2, S3, RDS, IAM etc) using **Terraform**, embracing IAC principles.
- Orchestrated deployment of **containerized applications** on **AWS ECS (Fargate/EC2)** using multi-stage build optimized Dockerfiles. Implemented **auto-scaling policies** for optimal resource utilization and availability.
- Configured scalable database solutions, PostgreSQL clusters (**AWS Aurora v2 Serverless**) and Redis/Valkey clusters as caching layer for **optimizing DB-intensive** operations (**AWS ElastiCache**).
- **DNS management** via **Route 53 & Cloudflare**, configured load balancers, health checks & target groups.

#### Web/Mobile/Desktop Application Development

- Led development of modern, full-stack applications (**Invoicing, CRM, HRMS SaaS**) for European clients using **NextJS, React Server Components, Node.js/Bun** based **express/hono** servers, and various AWS services.
- Integrated generative AI solutions (**AI agents / RAG pipelines / data classifiers**) using **SOTA LLMs**.
- Engineered a scalable PDF microservice using **Puppeteer on AWS Lambda & API Gateway**. Implemented **AI document scan** using user configurable **programmable emails** using **AWS SES, S3, Lambda and SQS**.
- Developed cross-platform mobile app using **React Native (Expo framework)** & cross-platform desktop app using **Electron**, with robust IPC (inter-process communication) and integration with existing REST API.
- Developed and deployed a **service for freight forwarding companies**, integrating their existing enterprise ERP (CW1) and custom TMS using Node.js and special timezone sensitive cron jobs for shipment tracking, online bookings, and e-docs management - complemented with user friendly React UI.

### SKILLS

- **Languages/Frameworks/Libraries/Runtimes:** Typescript/Javascript, Go, React, React Native, Electron, Next.js, LangChain, AI SDK, Typescript backend frameworks, (Hono/Express), GraphQL, Node.js/Bun
- **Cloud/DevOps:** AWS Cloud, Terraform, Docker, Kubernetes, CI/CD (Github Actions/Jenkins), Linux
- **Databases:** SQL (PostgreSQL), Vector (Pinecone, Qdrant), NoSQL/KV (Redis/Valkey, MongoDB)

### PROJECTS

#### OpenContext

- A full stack context oriented AI application, uses a **browser extension to vectorize web/video content**.
- Runs **OpenAI whisper ASR model locally** to transcribe online videos and store them in a vector database.
- Features: conditional **RAG (Retrieval-Augmented Generation)**, custom **MCP (Model Context Protocol) server**, chat application with tool calls, custom context selector, custom markdown formatting.
- Tech.: Next.js, tRPC, BullMQ, LangChain, AI SDK, Transformer.js, Qdrant Vector DB, OpenRouter, Hono, Drizzle

#### Go API Servers

- Collection of Go backend servers utilizing both **GraphQL/REST API layer**, sqlc compiler for **typesafe raw sql queries in go**, Atlas for schema migration. Implemented **repository pattern**, JWT auth and middlewares.

#### EKS Sandbox

- Documented experimental Terraform configurations and Kubernetes manifests on AWS EKS.
- For setting up and managing AWS EKS clusters, including architecture, networking, autoscaling (**HPA and cluster autoscaler**), **ingress controllers** (AWS and NGINX), **CSI drivers** (EBS/EFS), and secrets management.

### EDUCATION

**BACHELOR OF TECHNOLOGY (B.TECH) IN INFORMATION TECHNOLOGY**

**2019-2023**

**Gautam Buddha University, Noida, India**

- Awards: Awarded scholarship for securing first position in semester exams, with GPA of 9.64.