Subash Saajan J

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Summary

Full-stack engineer working in TypeScript and Go who sees each feature through from start to finish, from the database and APIs to the screens people use and the servers they run on. Currently building an AI-powered learning platform for teachers and students at a startup.

Skills

Languages: TypeScript, Go, Python, SQL
Backend: Go (Fiber), Node.js, NestJS, Python, REST + OpenAPI
Frontend & Mobile: React, Next.js, React Native (Expo), Tailwind CSS
Data & Cloud: PostgreSQL, Redis, AWS, Google Cloud, Docker, Terraform
AI: LLM agents (LangGraph), OpenAI, RAG, AI evaluation

Experience

Software Engineer *Feb 2026 – Present*
Sentellent, AI learning platform for teachers and students *Remote*

- Designed and built the platform's **AI grading system**, which marks student assignments, quizzes and discussions and lets teachers review every grade before it is released.
- Rebuilt the **AI assistant** that handles tasks across the platform as a multi-step agent on LangGraph, with long-term memory and tools limited to what each user's role allows.
- Built an **evaluation harness** for the assistant that runs simulated teacher and student conversations and scores the replies with an LLM judge, to catch drops in answer quality.
- Ship features across the whole product, from the database and backend APIs to the React/TypeScript app on AWS, including **hardening API access control**.

Projects

PrintEz, Printing Platform *printez.app*

- Customers scan a QR code, upload a document, pay by UPI and collect the print, either at a self-service kiosk or at a partner print shop.
- Wrote the **backend in Go** (Fiber) with PostgreSQL, Redis and Cloudflare R2 for file storage, and the customer site in Next.js.
- Wrote the **device software in Go**, a Raspberry Pi agent for kiosks and a Windows app for print shops, both pulling jobs from the server.
- Each job's state is saved before it reaches the printer, so a crash mid-print is caught on restart and a stuck job can move to a backup printer.
- Updates are **signed**. Devices check the signature and file hash before installing, wait until nothing is printing, and hold no passwords or API keys.
- CI builds the Raspberry Pi and Windows versions for every release. The server runs on Docker Compose behind Nginx with TLS.

DR20 HomeCare, healthcare booking app (lead engineer) *dr20.in*

- Led the **rebuild from scratch in TypeScript**, covering the React Native Android app, NestJS backend, admin console and website.
- Built the web admin console and the Razorpay payment integration, and set up hosting and deployments on Google Cloud.

Education & Certifications

B.Tech, Computer Engineering (AI & Robotics), Vellore Institute of Technology, Chennai *2021 – 2025*
AWS Certified Solutions Architect – Associate *Apr 2024*
Best Paper, ASCIS 2024 (Springer CCIS): blockchain-based location verification for vehicular networks *2024*