

SOMESH.S.TALLIGERI

Software Engineer | AI / ML, Full-Stack & Data | Python, TypeScript, React, Node.js, FastAPI

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SUMMARY

Software engineer who builds and ships production systems across **AI, full-stack, and data**. Fine-tuned an open-source LLM with **QLoRA** and built a RAG system around it that fixes where naive retrieval fails; built **Python and Node.js services, REST APIs, and React / Next.js apps** for enterprise and startup clients; and automated large-scale **data reconciliation** in Python. Deploy with **Docker, AWS, and CI/CD** and monitor in production. Published two npm tools and a research preprint; **12x hackathon winner**.

EDUCATION

B.Tech, Computer Science & Information Technology | REVA University, Bengaluru

Expected Sep 2028

Pre-University (Class 11 & 12) | Presidency Pre-University College, Hebbal, Bengaluru

2022 - 2024

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), SQL, Java, Go, C

AI / ML: LLM applications, agentic AI, RAG, embeddings, vector search (Qdrant), reranking, QLoRA fine-tuning, PyTorch / Hugging Face, prompt engineering, tool calling, MCP, LLM observability, Amazon Bedrock

Data: Data pipelines, data cleaning and reconciliation, model evaluation, Power BI, Excel, PostgreSQL, MongoDB, Redis

Full-Stack: React.js, Next.js, Vite, Tailwind CSS, Node.js, NestJS, Express.js, FastAPI, REST APIs, GraphQL, WebSockets, JWT / OAuth 2.0, BullMQ

Cloud & DevOps: AWS, Oracle Cloud (OCI), Docker, Docker Compose, Kubernetes (debugging), Linux, Git, GitHub Actions CI/CD, Vercel, monitoring

Engineering: Data structures & algorithms, OOP, system design, unit / integration / fuzz testing, code reviews, Agile

EXPERIENCE

Software Engineer, Founding Team | Agents Clan Venture, Bengaluru

Apr 2026 - Present

- Solo-built an enterprise **Hotel Operating System** (Next.js, NestJS, Prisma, PostgreSQL, BullMQ on Redis) for client The Oterra, with a strict **double-entry finance engine** and async job queues.
- Built a production **Solana memecoin trading platform** for client **Andx Global**: multi-service backend with **real-time on-chain data integrations** (Pump.fun, Raydium, Jito bundles), plus CI/CD, automated testing, and monitoring.
- Reverse-engineered a production SaaS platform** from network traffic into a complete build spec.

AI Engineer | Velankani Information Systems Ltd, Bengaluru

Apr 2026 - Present

- Built an automated **GST ITC reconciliation pipeline in Python** that cleans and matches tax-credit records across large, messy datasets, replacing manual processing.
- Integrate **AI services into production via REST APIs**; own deployment and monitoring.

Web Development Intern | Aexiz Solutions (Remote)

Sep 2025 - Nov 2025

- Shipped 3+ features in **React.js and Node.js**, cutting average **page-load time by 30%**.

PROJECTS

LLM Power Electronics Assistant: Fine-Tuned Model + RAG | Applied AI

Python · PyTorch / Hugging Face · Qwen3-8B · QLoRA · Qdrant · BGE · SymPy · FastAPI · Next.js · Docker Compose

- Fine-tuned Qwen3-8B with QLoRA** and built a RAG system over textbooks that solves problems step by step with **exact page citations**; fixed naive RAG failures with **reranking** and a **SymPy engine** so numbers are computed, not guessed; served via a streaming FastAPI backend.

DataBond (OpenBook): Full-Stack Data Marketplace for AI Agents | Full-Stack Product

- Built the React front end, Bun APIs, buyer CLI, and an **MCP server with seven tools** so agents discover, buy, and verify datasets, with **enforced data-freshness SLAs**, automatic refunds, and a public audit trail.

Pactra: Budget Enforcement for Autonomous AI Agents | pactra.pages.dev

Preprint: zenodo.org/records/22833162

- Designed hierarchical budget accounting for delegated agents; validated with **101 tests, fuzzing, 1,200 adversarial strategies, and 45,360 simulated attempts**; published as a research preprint.

Composter: React Component Vault with CLI & MCP Server | composter.vercel.app

npm: [composter-cli](https://www.npmjs.com/package/composter-cli)

- Turborepo monorepo (React, Node.js CLI, PostgreSQL API, MCP server for Claude and Cursor); **published to npm**.

Client Work | yachtrave.in · unreal-acv.vercel.app · adventures.vercel.app

- Solana memecoin trading platform** for Andx Global, a **hotel operating system** for The Oterra, a **school website** for St. Michael's English School, an **event registration platform** (yachtrave.in) with real sign-ups, plus sites for a video production house and a venture studio.

ACHIEVEMENTS, LEADERSHIP & CERTIFICATIONS

- 12x Hackathon Winner** across 20+ competitions: **1st Place**, OG Blockchain Hackathon (national); **2nd Place**, Altimate AI Hackathon; **Best Project**, Algorand; **4th Place**, Base Hyperthon (Coinbase L2); **Top 5**, Aptos.
- OpenAI Campus Ambassador**; **Nightforce Alpha Ambassador**, **Midnight Network**; **College Ambassador**, **Techfest IIT Bombay 2026** (Certificate of Appreciation); hosted **10+ workshops and sessions**.
- Certifications:** University of Oxford Said Business School (**Generative and Agentic AI**, **AI Governance**, **AI Essentials**); Anthropic Claude Academy (AI Fluency, AI Capabilities & Limitations, Claude 101); **Datadog: Build and Observe an LLM Application**; **AWS AI Practitioner Challenge** (Udacity); **Oracle OCI 2025 Foundations Associate**; **Atlassian Rovo Fundamentals (ACH-800)**; Postman API Student Expert.
- Associate President, **Indian Data Club** (Datathon, 50+ participants; **10+ hackathons and events organized**). Open source: ShipGuard & KubeTrace (gitbot-hq), GSSoC 2025.