Rahfath Sarose Software Engineer

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PROFILE

Software Engineer with full stack experience across TypeScript, Next.js, Node.js, and distributed system architectures. Skilled in developing event driven microservices, integrating secure payment pipelines, and deploying applied LLM features with structured retrieval. Focused on writing testable, production ready code with clean boundaries and low latency API design.

EXPERIENCE

Freelance Full Stack Developer | Self employed, 01/2025 – Present
Collaborated with clients from different countries to deliver customized solutions. Remote

- Developed custom full stack web applications using Next.js and Laravel, managing relational schemas across MySQL and PostgreSQL.
- Built API endpoints with short latency response targets and connected localized LLM endpoints via Groq and LlamaIndex for retrieval workflows.
- Implemented RBAC access layers, session handling cookies and secure customer facing workflows.

Trainee Software Engineer, *TRACE Theory to Trade (T2T)* 10/2024 – 04/2025
Maradana, Colombo 10

- Contributed to the Digital Diary full stack enterprise web application built on Next.js, PostgreSQL, Prisma ORM and Tailwind CSS.
- Built reusable interface components using shadcn and fixed client side state bottlenecks, reducing UI rendering delays.
- Participated in sprint planning, code reviews, and schema migrations under senior engineering guidance.

Technical Support Intern, *GAO Tek* 02/2024 – 07/2024
Ontario, Canada

- Resolved technical user queries and documented system troubleshooting paths for internal support portals.
- Maintained content lifecycles, structured indexing, and metadata tagging across enterprise CMS deployments.

PROJECTS

Thamarat - Multivendor Marketplace Platform,
(Next.js, TypeScript, Express, Apache Kafka, PostgreSQL, Prisma, Redis, Stripe, Nx)

- Architected an event driven microservices marketplace inside an Nx monorepo featuring separate buyer, vendor, and admin portals.
- Built an Express API Gateway handling route proxies, origin specific CORS policies, and token based rate limiting.
- Implemented multi vendor checkout sessions using Stripe Connect Express alongside transactional inventory updates powered by optimistic concurrency controls in Prisma.
- Built an asynchronous analytics pipeline using Apache Kafka to record real time user events and batch drain them into PostgreSQL.
- Added dual token auth (JWT access tokens paired with SHA-256 hashed refresh tokens) and a Redis backed OTP brute force engine.

Cura AI – Smart Medical Records Assistant, *(React, TypeScript, Django, PostgreSQL, ChromaDB, Groq, SQL Agent, RAG)*

- Built a healthcare assistant integrating a SQL agent for relational queries with a RAG pipeline for unstructured clinical docs.
- Managed vector embeddings in ChromaDB to enable semantically accurate medical query routing with role-based access control.

ToWhere – AI Travel Planning Web Application, *(Next.js, Typescript, MUI, Llamaindex, Groq, Tavily)*

- Developed an AI powered travel planning platform using Next.js and TypeScript with intelligent itinerary generation via LlamaIndex and Groq LLM.
- Implemented real time travel data enrichment using Tavily and built scalable API routes for dynamic user queries.

EDUCATION

Bachelor of Software Engineering Honours (Results Pending), *Open University of Srilanka* 2022 – 2026

SKILLS

Languages
TypeScript, JavaScript, PHP, Python, Java, SQL

Technologies
Next.js, React, Laravel, Node.js, Express, Django, Prisma, MySQL, PostgreSQL, ChromaDB, Tailwind CSS, Bootstrap, Docker, Git, CI/CD, LangChain, LlamaIndex, Groq API, REST APIs, Nx Monorepo RAG, SQL Agent, Nx Monorepo. Stripe, Swagger