

SHEN RATHNAYAKA

shenrathnayaka.me | [LinkedIn](#) | [GitHub](#)

Colombo, Sri Lanka
shensandarur@gmail.com
+94 76 449 0327

PROFILE

Third-year Information Technology undergraduate at the University of Moratuwa seeking a Software Engineering Internship, with hands-on experience through client, company-mentored, and personal software projects. Passionate about learning and applying modern software architectures and frameworks, with particular interests in **cloud technologies, AI, Web3, and blockchain**. Eager to gain industry experience, expand my technical skills, and contribute to building secure, scalable, and user-focused software solutions.

TECHNICAL SKILLS

Languages	: TypeScript, Python, Java
Frameworks	: React, Next.js, Node.js, Express.js, FastAPI, Flutter
Databases	: PostgreSQL, MS SQL, MongoDB, pgvector, Redis
Cloud	: AWS, GCP
Dev Tools	: Docker, Git

TECHNICAL EXPERIENCE

ParkChain

Oct 2025 – Jul 2026

Group Software Project – Mentored by Geveo

- Contributed to the development of a Web3 peer-to-peer parking marketplace across **Flutter mobile, Next.js web, and Express.js backend** applications.
- Structured the Flutter mobile application using **Clean Architecture**, improving code organization and long-term maintainability.
- Integrated **Google Maps API** to enable parking spot discovery, navigation, arrival confirmation, and location-based check-in/check-out workflows.
- Developed backend APIs for check-in/check-out operations with location validation and business logic using **Express.js**.
- Enhanced the web administration portal by implementing parking spot management, settings management, and Google Maps integration.
- Technologies:** Flutter, Google Maps API, Next.js, TypeScript, Tailwind CSS, Express.js, PostgreSQL

Riverina Surveying Website

Jun 2026 – Present

Client Project

- Developed a modern, SEO-optimized website for an Australian land surveying company using **Next.js, React, TypeScript, Tailwind CSS, Express.js, and PostgreSQL**.
- Built responsive business pages including public pages, improving the company's online presence and user experience.
- Designed and implemented a secure customer enquiry system with document upload functionality using **AWS S3 and PostgreSQL**.
- Developed an admin dashboard for managing enquiries, uploaded files, and website content through a centralized interface.
- Implemented automated database backup functionality and backend APIs to improve system reliability and simplify maintenance.
- Technologies:** Next.js, React, TypeScript, Tailwind CSS, Node.js, Express.js, PostgreSQL (Neon), AWS S3

FinSight

Apr 2026 – Present

RAG Application

- Developing an AI-powered investment research platform that processes financial documents and provides context-aware insights using **retrieval-augmented workflows**.

- Built a scalable backend using **FastAPI**, asynchronous database operations, and **PostgreSQL with pgvector** for semantic search.
- Designed a document ingestion and embedding pipeline to support efficient retrieval and analysis of financial information.
- Containerized the backend using **Docker** to ensure consistent deployment and development environments.
- Contributing to a modular architecture that supports future AI-powered financial analysis and recommendation features.
- **Technologies:** FastAPI, PostgreSQL, pgvector, Docker, Next.js

ViewMe Crypto

Jul 2026 – Present

AI-Powered Crypto Trading Platform

- Contributed to an AI-powered crypto intelligence and sentiment analytics platform using **Next.js, ASP.NET Core, and FastAPI**.
- Developed backend services using **Clean Architecture, CQRS, and SOLID principles**, with authentication, validation, rate limiting, and audit logging.
- **Technologies:** .NET, Docker, PostgreSQL, Redis.

EDUCATION

University of Moratuwa

B.Sc. (Hons) Information Technology

Moratuwa, Sri Lanka

2024 – Present (Expected 2028)

- **CGPA: 3.68**
- **Relevant Coursework:** Software Engineering, Object Oriented Programming, Artificial Intelligence, Database Management, Statistics, Networking, Data Structures & Algorithm

Central College Kuliapitiya

Common Stream – Combined Mathematics, Physics, ICT

North Western, Sri Lanka

2020 – 2022

CERTIFICATIONS

- Developing Back-End Apps with Node.js and Express — **IBM**
- Introduction to Containers w/ Docker, Kubernetes & OpenShift — **IBM**
- Introduction to Cloud Computing — **IBM**
- Introducing Generative AI with AWS
- Developing Front-End Apps with React — **IBM**

ACHIEVEMENTS

- Google Cloud Arcade & Cloud Skills Boost Badges: Completed Google Cloud hands-on labs through Cloud Skills Boost, earned skill badges, and received Google Cloud Arcade swags.

HACKATHONS

- **CoinCeylon (2025)** — Blockchain competition; participant certificate.
- **MLH Midnight Build Hackathon 2026** — Developed **PrivHire**, a privacy-first AI recruitment platform leveraging blockchain technologies.

TECHNICAL WRITING

- **Medium:** medium.com/@shensandarurath
- **DEV Community:** dev.to/shen_sandaru
- **Devpost:** devpost.com/ShenSandaru

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Committee Member

INTECS – IT Faculty - University of Moratuwa

Sep 2025 – Sep 2026

Moratuwa, Sri Lanka