SHALON FERNANDO
SOFTWARE ENGINEER INTERN

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Portfolio | **LinkedIn** | **GitHub**

PROFESSIONAL SUMMARY

Self-driven Software Engineering undergraduate with a rare dual-specialization in **enterprise systems (Java, Spring Boot) and AI/ML (Python, RAG)**. Proven ability to lead in high-pressure environments, securing top-3 finishes in major hackathons. Currently applying skills as a Software Engineer Intern at Zenvora, architecting and integrating AI services with enterprise-grade Java applications.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript/TypeScript, SQL, C++
Backend: Spring Boot, Node.js, Express.js, Flask, Spring Security, RESTful APIs
Frontend: React, Next.js (App Router), React Native (Expo), Tailwind CSS, Three.js
AI/ML: Hugging Face Transformers, LangChain, RAG, OpenAI Whisper, Gemini API, FAISS
Databases: MySQL, MongoDB, PostgreSQL, Firebase Firestore
Cloud & DevOps: Docker, GitHub Actions (CI/CD), Vercel, Render, AWS, n8n
Testing & Tools: JUnit 5, Mockito, JaCoCo, Postman, Agile/Scrum, Jira, Git

PROFESSIONAL EXPERIENCE

Fullstack Software Engineer – Intern Zenvora Technologies Pvt. Ltd. | Remote | Oct 2025 - Present

- Tasked with architecting the core AI/ML summarization engine for an automated document filtering system for a major banking client (DFCC Bank).
- Conducted a comprehensive case study on AI-driven mandate processing; presented the full technical architecture and NLP pipeline strategy (RAG/Transformers) directly to the CTO.
- Currently developing the Python-based AI service (Hugging Face) for integration with the main Java Spring Boot application.

PROJECTS

LegalAid AI - AI-Powered Legal Assistant | Live Demo | GitHub
Architecting a multimodal legal assistant using a **Next.js** (TypeScript) frontend and a **FastAPI** (Python) backend. Designed to answer legal queries via a web UI and WhatsApp, integrating an **OpenAI Whisper model** for voice-to-text transcription. Implements a RAG pipeline (LangChain, FAISS) for document retrieval and an **n8n workflow** automation engine for scheduling tasks.

Hotello - Full-Stack Hotel Booking Platform | Live Demo | GitHub
Architected and deployed a full-stack hotel booking web app using the **MERN stack** (MongoDB, Express, React, Node.js) with **Vercel** for the frontend and **Render** for the backend. Engineered the complete user lifecycle, implementing secure, token-based authentication for Admin and user management using **Clerk, Stripe** payments. Built a comprehensive backend with **GitHub Actions for CI/CD**, and full API test suites in Postman.

MediWay – Hospital Management System | Live Demo | GitHub
Developed a full-stack hospital platform with a **Spring Boot** backend, achieving **82% test coverage** across 484 unit and integration tests (JUnit 5, Mockito, JaCoCo). Engineered a scalable enterprise architecture, integrating Docker, PayPal API for payments, and **GitHub Actions (CI/CD)** for a complete development-to-deployment workflow.

National AI-Optimized Disaster Platform for Sri Lanka | GitHub
(1st Runner-up, Codefest 2025) Led a team to build a dual-platform (React Native & React) disaster response system. Designed a citizen-facing React Native app for SOS alerts and an AI Safety Assistant, and a government web dashboard (React) for live monitoring and resource allocation.

PDF Chat AI - RAG-based Document Assistant | GitHub
Built a web app to interact with PDFs using natural language, implementing a complete **Retrieval-Augmented Generation (RAG)** pipeline from scratch. Utilized **Hugging Face** models for embeddings and answer generation, with a **FAISS** vector store for fast semantic search over document chunks.

HACKATHONS & LEADERSHIP

- **Winner – MS Club Mini Hackathon -** Secured 1st place after advancing through the engineering prototype round, delivering an innovative and well-executed solution in the final stage. - Certificate
- **Team Lead – 1st Runner Up, ReviveNation** Hackathon (Codefest 2025, SLIIT) – Led a team to design and develop an innovative AI-driven disaster management solution under tight deadlines - Certificate
- **2nd Runner Up | IntelliCon'25 hackathon | AIESEC in SLIIT -** Awarded 2nd Runner Up for developing a legal aid AI application that delivered an innovative solution to a complex problem. - Certificate
- **Finalist**, **VibeFlow AI Hackathon** by STEM LINK – prototyped edtech web app with documentation in 6h - Certificate
- **Shortlisted for Final Round – HackX 10.0 | IdeaX 2025 – (Ongoing) -** Currently competing in the final stage after initial selection among top teams for innovation pitch. - Certificate

EDUCATION

B.Sc. (Hons) in Information Technology — Specializing in Software Engineering Sri Lanka Institute of Information Technology (SLIIT) │ (Expected Graduation)

- **Dean's List Honoree** (Year 1, Semester 2) - Certificate
- **CGPA: 3.4**

CERTIFICATIONS

1. **Getting Started with AWS Cloud Essentials** — AWS/Skillbuilder.
2. **Agile Scrum Foundation** — Simplilearn (Issued Jul 2025) Credential ID: 8557338
3. **Hugging Face Projects** — Simplilearn (Issued Jul 2025) Credential ID: 8647177
4. **JavaScript Algorithms and Data Structures** — freeCodeCamp (Issued May 2025) Credential ID: fcc-62c83883-49b6-4a77-ad3b-10e101db8211-jaads
5. **MongoDB Data Modeling Path** — MongoDB (Issued Oct 2025) Credential ID: MDBganoz9dqjy
6. **Postman API Fundamentals Student Expert** — Postman (Issued Nov 2025) ID: 690a01291243d3353edbf0e9

View all 24+ certifications on LinkedIn

REFERENCES

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