SHALON FERNANDO
SOFTWARE ENGINEER INTERN

Negombo, Sri Lanka — +94 771 052 042 — shalonfernando52@gmail.com
Portfolio | LinkedIn | GitHub

SUMMARY

Self driven third year undergraduate specialising in Software Engineering with strong expertise in web application development using **Java, MERN, Next.js, Python, React Native, and Spring Boot.** Skilled in both frontend and backend, with hands-on project experience creating **RESTful APIs**, integrating **MySQL/MongoDB**, and building responsive user interfaces. Proven ability to deliver impactful, user focused solutions, contribute effectively in **agile** engineering teams and communicating technical concepts across teams. Eager to apply adaptable technical skills, problem solving mindset, and collaboration to a Software Engineering position.

TECHNICAL SKILLS

Languages Java | Python | JavaScript/TypeScript | Html | CSS | C | C++ | PHP
Frameworks React (Next.js, Vite) | Spring Boot | Node/Express | Flask | React Native
Databases MySQL | MongoDB | PostgreSQL | Firebase Firestore | Redis | FAISS
Cloud & DevOps Vercel | AWS | Docker | Netlify | GitHub Actions (CI/CD)
Project Management & Collaboration: Agile/Scrum | Jira | Git | GitHub | Version Control | Documentation
Methods OOP | DSA | REST API design | Agile/Scrum
Testing & QA JUnit 5 | Mockito | Postman | JaCoCo (Code Coverage) | Integration & Unit Testing
Data & AI/ML Tools LangChain | OpenAI API | Hugging Face | PyTorch | RAG

EDUCATION

Sri Lanka Institute of Information Technology(SLIIT)— B.Sc. Hons. in Information Technology Specializing in Software Engineering.
Dean's List (GPA 3.74), Year 1 Semester 2 - Certificate

EXPERIENCE

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

SELECTED PROJECTS

National AI-Optimized Disaster Platform for Sri Lanka - Hackathon Project–1st RunnerUp (Codefest 2025, SLIIT) | GitHub
Designed a dual-platform disaster management solution with a React Native mobile app for citizens (SOS alerts, incident reporting, AI-powered safety assistant, risk maps) and a React web dashboard for government authorities (real-time monitoring, SOS tracking, resource allocation, analytics). Integrated SLUDI authentication, GPS-based reporting, and WebSocket-powered live updates.(React Native, React, Express.js, MongoDB Atlas, WebSockets, Google Maps API, Dialogflow/Rasa, OAuth2)

MediWay – Hospital Management System | GitHub | Link
Full-stack hospital management platform streamlining appointment scheduling, patient records, and secure online payments with role-based access, QR-code health cards, PayPal integration, and interactive admin analytics.
 (Tech Stack: Java Spring Boot · React · MySQL · Docker · PayPal API · JUnit 5 · Mockito)

Avyra – Game Download Platform | GitHub | Link
Built a full-stack game download platform inspired by Steam, featuring game browsing, purchasing, reviewing, and secure downloading. Integrated JWT-based authentication, PayPal Sandbox for payments, and a Gemini API-powered chatbot assistant. Designed a fully responsive 3D UI using React Three Fiber and implemented role-based download protection.
(React, Vite, Tailwind CSS, React Router, Spring Boot, Spring Security, JPA, Hibernate, JWT, MySQL, PayPal API, GSAP)

EcoTrack – AI-Powered Carbon Footprint Tracker - Github
 Led development of a mobile app that helps users track and reduce CO_2 emissions using AI-driven insights and sustainability analytics. Integrated Gemini AI for NLP-based eco-advice, JWT authentication, and community goal tracking. Tech: React Native (Expo), Node.js, Express.js, MongoDB Atlas, Gemini API

PDF Chat AI| GitHub
RAG-based PDF assistant enabling natural language interaction with documents using FAISS and Hugging Face models. (Python, Streamlit, FAISS, Transformers)

Ceylon Smart Citizen – Rootcode Datathon 2025 - Github
ML-based solution predicting government service times and optimizing staffing via real data analysis. (Python, scikit-learn, pandas)

CERTIFICATIONS

1. **AWS for Beginners** — Simplilearn (Issued Jul 2025) Credential ID: 8640308
2. **Getting Started with AWS Cloud Essentials** — AWS/Skillbuilder.
3. **Agile Scrum Foundation** — Simplilearn (Issued Jul 2025) Credential ID: 8557338
4. **Front-End Web Development** — University of Moratuwa (Issued Jul 2025) Credential ID: qFUzVohsmY
5. **Generative AI for Beginners** — Simplilearn (Issued Jul 2025) Credential ID: 8588189
6. **Getting Started with Docker** — Simplilearn (Issued Jul 2025) Credential ID: 8576333
7. **GitHub Basics** — Simplilearn (Issued Jul 2025) Credential ID: 8559322
8. **Hugging Face Projects** — Simplilearn (Issued Jul 2025) Credential ID: 8647177
9. **Introduction to Kanban** — Simplilearn (Issued Jul 2025) Credential ID: 8640416
10. **Introduction to Prompt Engineering** — Simplilearn (Issued Jul 2025) Credential ID: 8590124
11. **Introduction to Prompt Engineering with GitHub Copilot** — Simplilearn (Issued Jul 2025) Credential ID: 8592998
12. **JavaScript for Beginners** — Simplilearn (Issued Jul 2025) Credential ID: 8630648
13. **Langchain Course for Beginners** — Simplilearn (Issued Jul 2025) Credential ID: 8598970
14. **Prompt Engineering Applications** — Simplilearn (Issued Jul 2025) Credential ID: 8592443
15. **Front End Development Libraries** — freeCodeCamp (Issued Jun 2025) Credential ID: fcc-62c83883-49b6-4a77-ad3b-10e101db8211-fedl
16. **Full-Stack Development 101** — Simplilearn (Issued Jun 2025) Credential ID: 8524763
17. **Introduction to PHP** — Simplilearn (Issued Jun 2025) Credential ID: 8521990
18. **JavaScript Algorithms and Data Structures** — freeCodeCamp (Issued May 2025) Credential ID: fcc-62c83883-49b6-4a77-ad3b-10e101db8211-jaads
19. **Python for Beginners** — University of Moratuwa (Issued May 2025) Credential ID: wK3BwjZLBs
20. **Responsive Web Design** — freeCodeCamp (Issued May 2025) Credential ID: fcc-62c83883-49b6-4a77-ad3b-10e101db8211-rwd
21. **Web Design for Beginners** — University of Moratuwa(Issued May 2025) Credential ID: jPtem2uirl
22. **RAG Course for Beginners** — Simplilearn(Issued July 2025)Credential ID 8709708
23. **MongoDB Data Modeling Path** — MongoDB (Issued Oct 2025) Credential ID: MDBganoz9dqjy

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 multi disciplinary 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
- **Open Source Contributions – Hacktoberfest 2024 (Qualified as Super Contributor)** - Successfully merged X+ PRs across public repositories, collaborating with global maintainers. Awarded recognition badges on Holopin. - Badges

REFERENCES

Uwan Vithana
Ministry of Digital Economy/Lead Senior Software Engineer
Phone   +94 71 257 0300
Email   uwanv@pmu.mode.gov.lk

Vihan Rojitha
The Apex Software Solutions/Software Engineer
Phone   0716024065
Email   vihanvrs@gmail. com

Randila Premarathne
The Jobhelpers/Associate Software Engineer
Phone   0711251271
Email   randilamenukapremarathne@gmail. com