SHALON FERNANDO

SOFTWARE ENGINEER INTERN

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

SUMMARY

Self driven third year undergraduate specialising in Software Engineering with strong expertise in web application development using 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 | Kotlin | Html | CSS | C | C++ | PHP

Frameworks React (Next.js, Vite) | Spring Boot | Node/Express | Flask | React Native

Databases MySQL | MongoDB

Cloud & DevOps Vercel | AWS | Docker

Tools Git | JPA/Hibernate | JWT | FAISS | TailwindCSS | Three.js/@react-three/fiber

Methods OOP | DSA | REST API design | Agile/Scrum

Testing & QA Postman

Data & Al/ML Tools LangChain | OpenAl 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

SELECTED PERSONAL PROJECTS

National Al-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, Al-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)

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)

PDF Chat Al | GitHub

Developed a Streamlit-based Al assistant that enables users to upload and interact with PDFs using natural language queries. Used FAISS for semantic search and Hugging Face models for retrieval-augmented generation. Supports multi-PDF uploads, conversational memory, and efficient CPU-bound inference.

(Python, Streamlit, FAISS, Hugging Face Transformers, instructor-xl, flan-t5-large)

Arogya – Patient Management System | GitHub

Designed a role-based healthcare system to manage patient records, appointment scheduling, and medical file uploads. Integrated Appwrite for authentication, database, and real-time SMS notifications. Added 3D model integration to enhance patient interaction.

(Typescript, Nextjs, React, Tailwind CSS, Appwrite, React Three Fiber, HTML, CSS, JS)

Item Inventory & Maintenance System | Github

Full-stack application to manage inventory, usage logs, and maintenance tracking. Implemented role-based JWT auth, real-time stock alerts, and exportable PDF/CSV reports. Integrated 3D model viewer for asset inspection and visual analytics via charts.

(React, Node.js, Express.js, MongoDB, JWT, Three.js, Chart.js, jsPDF)

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. <u>Generative AI for Beginners</u> 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. <u>Introduction to Prompt Engineering with GitHub Copilot</u> Simplilearn (Issued Jul 2025) Credential ID: 8592998
- 12. <u>JavaScript for Beginners</u> 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. <u>Front End Development Libraries</u> 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. <u>JavaScript Algorithms and Data Structures</u> 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. <u>Responsive Web Design</u> 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

ACHIEVEMENTS & LEADERSHIP

- SLIIT Basketball Team Power Forward/Center; coordinate plays & mentor first year recruits. Fiba 3X3 profile - <u>Link</u>
- Vipers 3X3 open category basketball team Team Lead.

HACKATHONS & COMPETITIONS

- Team Lead 1st Runner Up, ReviveNation Hackathon (Codefest 2025, SLIIT) Led a multi disciplinary team to design and develop an innovative Al-driven disaster management solution under tight deadlines - <u>Certificate</u>
- **Finalist**, **VibeFlow Al Hackathon** by STEM LINK prototyped edtech web app with documentation in 6h <u>Certificate</u>
- **Team Lead Tech Triathlon** (Rootcode) Led a team in a multi-round technology challenge, overseeing project strategy, task delegation, and rapid prototyping.

REFERENCES

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