

SHALON FERNANDO

SOFTWARE ENGINEER INTERN

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

SUMMARY

Self driven third year undergraduate specialising in Software Engineering with strong expertise in web application development using **MERN, Next.js, Python, 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 & 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](#)

SELECTED PERSONAL PROJECTS

Avyra – Game Download Platform | [GitHub](#)

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 AI | [GitHub](#)

Developed a Streamlit-based AI 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)

Sinhala & English Speech-to-Text App | [GitHub](#)

Built a multilingual speech-to-text web application supporting Sinhala (සිංහල) and English voice transcription. Integrated Whisper (small) and Wav2Vec2 for accurate audio processing. Users can record audio in-browser with waveform visualization or upload files for real-time transcription. Features include language selection, audio playback, transcription copy, and a responsive dark-themed UI.

(Python, Flask, Hugging Face Transformers, Whisper, Wav2Vec2, PyTorch, HTML, CSS, JavaScript)

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. **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

LEADERSHIP & EXTRACURRICULAR

- **SLIIT Basketball Team** – Power Forward/Center ; coordinate plays & mentor first year recruits. Fiba 3X3 profile - [Link](#)
- **Vipers** 3X3 open category basketball team - Team Lead.

HACKATHONS & COMPETITIONS

- Finalist, **VibeFlow AI Hackathon** by STEM LINK – prototyped edtech web app with documentation in 6h - [Certificate](#)
- Team Lead – **REVIVENATION Hackathon (CODEFEST)** – Currently leading a multi-disciplinary team to design and develop an innovative tech solution under tight deadlines.
- Team Lead – **Tech Triathlon (Rootcode)** – Currently directing project strategy, task delegation, and delivery for a competitive multi-round technology challenge.

REFERENCES

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