SHALON FERNANDO
SOFTWARE ENGINEERING 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 Intern position.

TECHNICAL SKILLS

Languages Java | Python | JavaScript/TypeScript | Kotlin | Html | CSS | C | C++
Frameworks React (Next.js, Vite) | Spring Boot | Node/Express | Flask
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

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

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)

Interactive Developer Portfolio | GitHub

Designed and deployed a fully interactive developer portfolio showcasing projects, skills, and career highlights. Built with React and styled using TailwindCSS, the site features immersive 3D animations via Three.js and @react-three/fiber. Integrated a responsive contact form using EmailJS and deployed the site seamlessly on Vercel.
(React, TailwindCSS, Three.js, @react-three/fiber, @react-three/drei, Framer Motion, EmailJS, Vercel)

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 BeginnersRAG Course for Beginners** — Simplilearn(Issued July 2025)Credential ID 8709708

LEADERSHIP & EXTRACURRICULAR

- SLIIT Basketball Team – Power Forward/Center ; coordinate plays & mentor first year recruits.
- Lead the 3X3 open category basketball team Vipers.
- Participant, VibeFlow AI Hackathon by STEM LINK – prototyped edtech web app with documentation in 6h.
- Currently leading a team for the REVIVENATION hackathon by CODEFEST.

REFERENCES

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