Thaveesha Sathsara Vithana

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SUMMARY

Software Engineer with extensive practical experience in Full-Stack Development. Skilled in Microservices architecture, Agile methodologies, and integrating AI models into production-ready web apps. Committed to building scalable, high-performance solutions.

TECHNICAL SKILLS

React.js, Node.js, Express.js, MongoDB, JavaScript (ES6+), HTML5, CSS3, Redux, Axios, React Hooks, Python, Java, C#, FastAPI, MySQL, REST API Design, Microservices, Agile Methodology, SDLC, Docker, Git, Bitbucket, Jira.

WORK EXPERIENCE

Software Engineer Trainee – Sri Lanka Telecom PLC **May 2025 – Nov 2025**

- Played a pivotal role in the full-stack development of Phase 2 of the Business Continuity Management System (BCMS), an enterprise-grade MERN application designed to digitalize internal operations.
- Successfully navigated and contributed to a production codebase, ensuring seamless integration of new modules with existing legacy infrastructure.
- Engineered robust RESTful APIs using Node.js and Express.js to accelerate document handling workflows. Optimized database queries in MongoDB to reduce latency during peak internal traffic hours.
- Built complex, interactive dashboards using React.js and Redux. Transformed static requirements into dynamic, responsive UI components that improved the efficiency of internal service management.
- Acted as a technical lead for the intern team, conducting code reviews, assigning tasks via Jira, and guiding peers through complex debugging sessions to ensure on-time delivery of sprint goals.
- Thrived in a fast-paced Agile environment, rapidly adapting to changing business requirements and implementing urgent feature requests without compromising system stability.

PROJECTS

Autonomous Self-Healing System Architecture (Research & Development)

- Objective: Researching and architecting an intelligent middleware solution designed to autonomously detect system runtime failures, isolate faults, and execute self-healing protocols to ensure zero-downtime infrastructure.
- Key Focus: Implementing Python-based daemons, fault-detection microservices, and analyzing real-time system state vectors to trigger automated code patches and recovery workflows.
- Status: Active research phase; core architecture and prototype engine currently under development.

Commercial Enterprise ERP System (HR & Inventory)

- Architecting a production-grade MERN stack ERP solution for a commercial client using Agile methodology to adapt to dynamic business requirements.
- Sole engineer responsible for the full SDLC, building a Human Resource Information System (HRIS) for payroll/attendance and a synchronized Inventory Management module.
- Implementing complex business logic and modular architecture to ensure enterprise-level scalability and security.

Custom Merchandise E-Commerce Platform

- Engineered a MERN-stack e-commerce platform specializing in custom merchandise (mugs, photo frames, plates, apparel and etc.), featuring dynamic product catalogs and secure cart functionality.
- Built a comprehensive admin dashboard for centralized management of order lifecycles, customer profiles, and daily business operations.
- Implemented dual automated order confirmations via both WhatsApp and email to ensure reliable and immediate customer communication.

EDUCATION

BEng. (Hons) Software Engineering | London Metropolitan University (at ESOFT Metro Campus)

- Grade: First Class Honours (Awarded: Jun 2026)

Pearson BTEC Level 5 Higher National Diploma in Computing | Esoft Metro Campus

- Grade: Merit (Awarded: Oct 2025)

PROFESSIONAL MEMBERSHIPS

Student Member – The Institution of Engineering and Technology (IET), UK | Membership No: 6600008019

REFERENCES

Mr. Uditha Gamage
Senior Business Continuity Manager & Corporate Trainer
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Mr. Sachintha Ashika Bandara Yapa
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