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**Tashini Hendahewa**

BEng (Hons) Software Engineering

Work Experience

**Software Engineering Intern**

Epic Lanka (July 2023 - July 2024)

* Worked on full-stack development of enterprise-grade systems in the government and financial sectors.
* Collaborated in agile teams to deliver secure, scalable, and modular software solutions.

**Key Projects:**

**Document Management System – Parliament of Sri Lanka**

* Developed a centralized system for secure document storage, retrieval, and management.
* Implemented frontend components using React TypeScript and built backend services with Spring Boot.
* Integrated with SQL databases via Workbench for optimized data operations.

Technologies: React.ts, Spring Boot, SQL, Workbench

**Card Management System – Paytect Product**

* Contributed to Paytect, a comprehensive card issuing and merchant acquiring platform used by financial institutions.
* Assisted in developing modules for card application processing, personalization, and fraud detection.
* Worked with React.js for UI, Spring Boot for micro services backend APIs, and Oracle for transaction data management.
* Participated in agile development processes using Jira for issue tracking and sprint planning.

Technologies: React.js, Spring Boot, Oracle, Jira

Education

Software Projects

**BEng Software Engineering:** University of Westminster (2021 - 2025)

**GCE Advanced Level:** Dharmasoka College, Ambalangoda (Chemistry (C), Physics (C), Mathematics (B)) - 2020

**GCE Ordinary Level:** Dharmasoka College, Ambalangoda (Achieved 8A Passes) - 2017

**Machine Learning & AI Projects**

* **FabricGuard – Automated Fabric Quality Assessment System (2024 – 2025)**

Developed an AI-based system for fabric defect detection and texture analysis using EfficientNetB3 with SE Block and Handcraft texture features. Built a responsive PWA with a FastAPI backend and SQL database to enable real-time inference, report generation, and enhanced user experience.

* **Beam Load Analyzer (2022–2023) - Group**

Created a mobile app that scans hand-drawn beam diagrams and performs structural load analysis, combining image processing with Flutter UI and Python backend.

Technologies: Flutter, Firebase, Python

**Software Development Projects**

* **Inventory and Billing System (2025)**

Developed an inventory and billing system.

Technologies: Node.js, Express.js, SQLite

* **RestCountries Middleware API System (2025)**

Developed a secure Node.js middleware that integrates with the RestCountries API, offering endpoints for country data with user authentication and admin-level API key management. Packaged with Docker and backed by a SQLite database.

Technologies: Node.js, Express.js, SQLite, Docker, JWT

* **TravelTales – Country Blog Platform (2025)**

Created a full-stack blogging platform where users can post travel stories tagged with country-specific data. Implemented features like follow system, likes, comments, and blog search. Micro services backend is secured and Dockerized.

Technologies: Node.js, Express.js, SQLite, Docker, JWT

* **Merchant Management System (2023)**

Built a full-stack web application using Spring Boot and Angular 16 for managing merchant profiles with secure login, registration, and CRUD operations. Integrated MySQL/MariaDB for persistent data storage and connected frontend via RESTful APIs.

Technologies: Spring Boot, Angular, MySQL

* **Student Management System (2023)**

Developed a web app to manage student information, academic records, and course registrations using a Spring Boot backend with JSP frontend and MySQL integration.

Technologies: Spring Boot, JSP, MySQL

* **Skin Consultation Center Management System (2022)**

Created a Java Swing-based desktop application for managing appointments and consultations in a skincare center.

Technologies: Java, Swing

* **Fuel Queue Management System (2022)**

Built a JavaFX desktop solution for managing fuel station queues and vehicle flow.

Technologies: Java, JavaFX

* **MIDNIGHT – Band Website (2022) - Group**

Designed a static website for a fictional music band, showcasing media, profiles, and events.

Technologies: HTML, CSS, JavaScript

* **Student’s Progress Predicting System (2022)**

Developed a Python-based application to predict student academic performance using historical data and basic machine learning techniques.

Technologies: Python

**Competitions & Hackathons**

* **Code Sprint 7.0 (2023) –** A member of a finalist team of the IdeaSprint ( phase 1 ) organized by IEEE of Informatics Institute of Technology.
* **Microsoft Imagine Cup (2023) –** Developed an innovative tech-based solution for a global competition.

Java (Spring Boot/MVC) |Python | JavaScript | Nodejs | Expressjs | FastAPI | jQuery | PHP | React | Bootstrap | MySQL | PostgreSQL | Oracle | R | GIT | Micro Services | Rest API | Machine Learning | Debugging | Cybersecurity | DB Management | Testing | Excel | Power BI | ElectronJs | Docker | Jira

Skills

Extracurricular Activities

* Member of School Badminton Team(2013-2015)
* Swimming Enthusiast
* Hackathon & Competitive Coding Enthusiast
* Member of Rotaract Club of Informatics Institute of Technology (2022-Present)