



# Tashini Hendaheewa

BEng (Hons) Software Engineering

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## Work Experience

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### 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

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**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

# Software Projects

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## 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

- **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
- **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, 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
- **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.

## Skills

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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

## Extracurricular Activities

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