

Bavindu Shan

Intern Back-End Engineer

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EDUCATION

BEng (Hons) in Software Engineering (TOP-UP)- *London Metropolitan University (UK).*

Jan 2025 – Present

Dip. in ICET Certified Developer- *Institute of Computer Engineering Technology (ICET).*

Sep 2024 – Present

BTEC HND in Computing (Distinction Pass)- *ESOFT Metro Campus.*

Oct 2022 – Sep 2024

TECHNICAL SKILLS

Languages	: Java, JavaScript, TypeScript, C#, Python, PHP, CSS3, HTML5, XML
Frameworks & Libraries	: Spring Boot, Angular, Node.js, Express.js, JavaFX, Jasper Reports, Hibernate, Google Guice, Java Simplified Encryption (JASYPT), OpenCV, Bootstrap, Tailwind CSS, Lombok, Model Mapper, Prisma
Databases	: MySQL, SQL Server, Firebase
Cloud Computing	: Microsoft Azure Fundamentals
Networking	: LAN/WLAN, VLAN configuration
Tools & Platforms	: Git, GitHub, Visual Studio, VS Code, IntelliJ, Jaspersoft Studio, Postman, Google AI Studio, Power BI, Swagger UI

EXPERIENCE

Intern Back-End Engineer (Remote)

April 2025 – Present

ZephyraTech (Startup)

Greens Customer Mobile Application

Present

Developing APIs using **Express.js**, **JWT**, and **TypeORM**, with auto-generated Swagger reports. The project includes functionalities like user authentication, plant listing, cart management, multiple payment options and focus on **real-time plant monitoring** and IoT device integration.

Ayesha Cooperation's Management Platform

Present

Developing APIs and web systems using **Express.js**, **JWT**, and **Prisma** for Ayesha Cooperation's management platform. The project includes dynamic user roles, **OTP-based authentication**, product management, inquiry handling, invoice generation, and customer website integration, with a focus on scalability, security, and performance.

PROJECTS

Task Manager (Full Stack)

Present

Using **Layered Architecture**, developing a **Task Manager** web application with **Spring Boot**, **Angular**, and **JWT** for **role-based authentication**. Admins can CRUD tasks, assign tasks to staff, and track task statuses (ongoing, completed). Staff can view assigned tasks, update task statuses, download files, and use an integrated **chat feature** for communication. The system is designed to support **up to 100+ users**, enhancing team collaboration and task management efficiency.

Online Exam Platform(Full stack)

Present

Leading a group project to develop a scalable web-based platform using **Microservices architecture**, **Spring Boot**, **Angular**, and **MySQL**. Currently in the **second sprint**, I serve as both the **Full-Stack Developer and Team Lead**, guiding development and team coordination. The project follows **Layered Architecture** and aims to support **500+ users**, with features like **automated grading** designed to reduce manual evaluation efforts by up to **60%**.

MOS Burgers Project (Full Stack)

Mar 2025

Designed a **REST API-based** ordering system using **Java, Spring Boot, Hibernate**, and **Jasper Reports**. Automated key processes like order tracking and reporting, reducing processing errors by 40% and manual effort by 50%.

Hospital Management System (Standalone)

Mar 2025

Developed a secure **JavaFX-based** desktop application integrated with **MySQL** to manage over 200 daily patient records. Implemented **data encryption** for sensitive information, resulting in a 25% reduction in administrative workload through efficient record handling and automated processes.

Bus Seat Reservation System (Console)

Mar 2024

Created a **Java-based** reservation system that utilized **advanced queue management** and **sorting algorithms** to streamline booking operations. By optimizing the order of processing and minimizing wait times, the system improved overall **reservation efficiency by 50%**, enhancing user experience and reducing service delays.

AI-Powered Face Recognition Attendance System

Mar 2025

Developed an **AI-powered attendance system** using **Python, OpenCV**, and **Firebase** to enable **real-time tracking and updates**. The system automates the entire process, aiming for over **95% accuracy** and reducing **manual attendance tasks by 80%**, significantly improving efficiency and reliability.

Sampath Food City System (Console)

Jan 2024

Developed a **Python-based inventory management system** adhering to **SOLID principles**, ensuring clean and maintainable code. The system features **automated stock tracking**, which helped reduce **stock discrepancies by 35%**, improving overall inventory accuracy and operational efficiency.

Grifindo Travels System (Standalone)

Feb 2023

Developed a **C# application integrated with MySQL** to streamline **vehicle rental charge calculations**, resulting in improved **invoice accuracy**. The system also introduced **self-drive rental options**, enhancing overall **user satisfaction** and providing greater flexibility for customers.

Quiet Attic Films Database Design (Standalone)

Jan 2023

Designed a database using **C# and MySQL** to efficiently organize **client, asset, and workflow data**, significantly improving **operational efficiency** and fostering better **collaboration** within the company by providing easy access to critical information.

ACHIEVEMENTS AND CERTIFICATIONS

- [Oracle Java Explorer Badge](#)
- [Postman API Fundamentals](#)
- [HP LIFE Agile Project Management](#)
- [Microsoft Azure Fundamentals](#)
- [Fundamentals of Generative AI Badge](#)
- [Introduction to GitHub Copilot Badge](#)
- [Oracle MySql Explorer Badge](#)

EXTRA-CURRICULAR ACTIVITIES

- ESA(Esoft Student Association) Member
Esoft Metro Campus.
- Former Prefect & Sport Caption
Mahanama National School.

REFERENCES

- Dulashi Athauda, *Visiting Lecturer, IT*
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- Niroth Samarawickrama, *Founder*,
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