

# Bavindu Shan

Software Engineering Undergraduate

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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** : JavaFX, Spring Boot, Angular, Lombok, Model Mapper, Jasper Reports, Hibernate, Google Guice, Java Simplified Encryption (JASYPT), OpenCV, Bootstrap, Tailwind CSS
- **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

## PROJECTS

### Online Exam Platform

Present

- Building a scalable web-based platform using Java, Spring Boot, Angular, and MySQL to support 500+ users, with automated grading reducing manual evaluation work by 60%.

### Face Recognition Attendance System

Mar 2025

- Developed an AI-powered attendance system using Python, OpenCV, and Firebase to real time updates, automate tracking, aiming for 95%+ accuracy and reducing manual effort by 80%.

### MOS Burgers Project

Mar 2025

- Designed a REST API-driven ordering system using Java, Spring Boot, Hibernate, and Jasper Reports, reducing processing errors by 40% and manual effort by 50%.

### Hospital Management System

Mar 2025

- Built a JavaFX-based system with MySQL and data encryption to manage 200+ daily patient records, reducing administrative workload by 25%.

### Bus Seat Reservation System

Mar 2024

- Optimized reservation efficiency by 50% using Java and advanced queue management algorithms.

### Sampath Food City System

Jan 2024

- Developed a Python-based inventory system following SOLID principles, reducing stock discrepancies by 35% through automated tracking.

### An overview of Dialog's Cybersecurity resilience for Big Data-Driven Threats

Jun 2024

- Assessed 3 major vulnerabilities in big data processing and proposed strategies to enhance defenses against cyber threats.

### Malcolm's Photography Website

Jun 2023

- Designed and developed a responsive portfolio website using HTML5, CSS3, JavaScript, PHP, and MySQL, ensuring seamless navigation and user engagement.

### Grifindo Travels System

Feb 2023

- Developed a C# application integrated with MySQL for vehicle rental charge calculations, increasing invoice accuracy and introducing self-drive rental options to enhance user satisfaction.

### Quiet Attic Films Database Design

Jan 2023

- Designed a database using C# and MySQL to organize client, asset, and workflow data, improving operational efficiency and collaboration within the company.

### **LAN Design & Implementation for Alliance Health**

Feb 2023

- Designed and implemented an efficient network topology, reducing downtime and enhancing bandwidth management through VLAN configurations

### **Developing IT Skills in Apprentices: A Workshop for Child Development Institute**

Feb 2023

- Conducted workshops to provide basic IT knowledge to orphaned children, empowering them with essential digital skills.

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## **ACHIEVEMENTS AND CERTIFICATIONS**

**Oracle Java Explorer Badge** - Recognizes foundational knowledge of Java programming, covering core concepts, syntax, and object-oriented principles.

**Postman API Fundamentals** - Demonstrates proficiency in using Postman for API development, testing, and automation, ensuring efficient API integration and debugging.

**HP LIFE Agile Project Management** - Validates understanding of Agile methodologies, including Scrum and Kanban, to manage software projects effectively and improve team collaboration.

**Microsoft Azure Fundamentals** - Confirms knowledge of cloud computing basics, including Azure services, storage, networking, and security fundamentals.

**Fundamentals of Generative AI Badge** - Demonstrates knowledge of AI and machine learning models, focusing on how generative AI creates and enhances digital content.

**Introduction to GitHub Copilot Badge** - Showcases AI-assisted coding proficiency with GitHub Copilot.

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## **EXTRA-CURRICULAR ACTIVITIES**

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

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## **REFERENCES**

Dulashi Athauda, *Visiting Lecturer – IT*, ESOFTE Metro Campus.

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