

# 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

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

## PROJECTS

### Online Exam Platform (Full stack)

Present

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

### AI-Powered 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 (Full Stack)

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 (Standalone)

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 (Console)

Mar 2024

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

### Sampath Food City System (Console)

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 (Full Stack)

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 (Standalone)

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 (Standalone)

Jan 2023

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

### E-Video Cloud (EVC) Platform Development (UI)

Mar 2023

Developed a cloud-based video platform following Agile methodologies, enabling music producers to manage content, users to search, rent, or own videos, and providing an organized library, playback controls in the eM Player, and customizable user settings.

### Auto Cars System Development (UI)

Mar 2023

Designed a taxi management system following SDLC practices, integrating cab booking, driver availability management, real-time location tracking, client registration, and a rating system to enhance service quality and customer satisfaction.

### ChangeU Saloon System UI Development (UI)

Mar 2023

Designed a user-friendly UI following SDLC practices, incorporating appointment booking, service navigation, profile management, and feedback features for a seamless cross-device experience.

### 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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