

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

PROJECTS

Face Recognition Attendance System

Present

- Developing an AI-powered attendance system using OpenCV and face recognition libraries for automated identity verification.
- Implementing real-time facial recognition, attendance logging, and database integration to enhance efficiency.
- Ensuring secure and accurate authentication with optimized image processing techniques for improved recognition accuracy.

Online Exam Platform

Present

- Developing a web-based quiz and exam platform using Spring Boot, Hibernate, and Angular for seamless online assessments.
- Implementing dynamic quiz creation, automated grading, and real-time performance analytics to enhance evaluation efficiency.
- Integrating secure authentication and role-based access for admins, instructors, and students to ensure controlled platform usage.

MOS Burgers Project

Mar 2025

- Built a Spring Boot & Hibernate-based ordering system, improving efficiency with dynamic product listings.
- Implemented real-time order management via REST APIs, reducing processing errors.
- Integrated JasperReports for automated PDF generation and used MySQL, JavaScript, HTML, and CSS for a seamless experience.

Hospital Management System

Mar 2025

- Designed a layered architecture system using JavaFX, XML, and MySQL for efficient hospital management (Standalone).
- Implemented real-time appointment scheduling, staff workload management, and secure patient record handling with Jasypt encryption.
- Integrated JasperReports for automated billing and dynamic reporting with rollback support.

Bus Seat Reservation System

Mar 2024

- Built an optimized Java application utilizing advanced Data Structures and Algorithms to streamline queue operations.
- Improved seat reservation performance, reducing processing time.

Sampath Food City System

Jan 2024

- Engineered a Python-based inventory system following SOLID principles for maintainable code architecture.
- Automated testing using pytest, improving error detection.

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

Jun 2024

- Researched cybersecurity resilience in handling big data-driven threats.
- Evaluated existing measures and identified vulnerabilities.
- Proposed recommendations to enhance defenses against evolving cyber risks.

Malcolm's Photography Website

Jun 2023

- Designed and developed using HTML5, CSS3, JavaScript, PHP, and MySQL Server.
- Showcased Malcolm Lismore's portfolio with an engaging and user-friendly interface.
- Ensured seamless navigation and functionality.

Grifindo Travels System

Feb 2023

- Developed a C# application integrated with MySQL for seamless vehicle rental charge calculations.
- Increased invoice accuracy and introduced self-drive rental options, enhancing user satisfaction.

Quiet Attic Films Database Design

Jan 2023

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

LAN Design & Implementation for Alliance Health

Feb 2023

- Designed and implemented an efficient network topology, reducing downtime.
- Configured network devices and applied VLAN configurations for enhanced bandwidth management.

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

Feb 2023

- Conducted workshops to provide basic IT knowledge to orphaned children.
- Focused on empowering participants with essential digital skills.

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, 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
- **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

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.

EXTRA-CURRICULAR ACTIVITIES

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

REFERENCES

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

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