

# L.M MADUSHANADIRANGA

## SOFTWARE ENGINEER

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### SUMMARY

Software Engineering undergraduate with hands on experience in full stack development, machine learning, and computer vision. Completed an industry internship in software engineering and gained practical exposure to cloud based solutions. Strong problem solving, teamwork, and adaptability skills, with a keen interest in contributing to innovative software and AI solutions in dynamic environments.

### EDUCATION

#### BSc (Hons) Software Engineering

Nov 2022 – Nov 2025

Cardiff Metropolitan University (UK), ICBT Campus

- Relevant Modules: Software Development, AI & Machine Learning, Database and Project Management

### PROFESSIONAL EXPERIENCE

#### Associated Motor Finance Company PLC

Apr 2025 – Oct 2025

Intern Software Developer

- Engineered the modernization of legacy ASP.NET applications by re-architecting them into .NET Core Web API and Angular solutions using Clean Architecture, enhancing scalability, performance, and maintainability.
- Applied OOP and SOLID principles to ensure modular, testable, and reusable code throughout the development lifecycle.
- Designed and implemented RESTful APIs to support core business operations, optimizing data retrieval and processing efficiency for Angular front-end systems.
- Developed and optimized data access layers with Entity Framework Core and Dapper for efficient interaction with complex, high-transaction SQL Server databases.
- Utilized Azure DevOps for Git-based version control, CI/CD automation, and Agile sprint management in a collaborative team environment.
- Assisted in maintaining and enhancing existing .NET Core applications with Clean Architecture standards.
- Collaborated to implement new modules, write optimized SQL queries, and improve database performance.
- Gained practical experience with Agile workflows, CI/CD pipelines, and cross-functional teamwork.

### PROJECTS

#### Deep Learning Based PCB Defect Detection System

- Designed and implemented an automated defect detection system using Convolutional Neural Networks (CNNs) and YOLOv8, improving accuracy of defect identification by 95%.
- Tech Stack: Python, CNN, YOLOv8, Firebase, Streamlit

#### Online Food Ordering App

- Built a cross-platform mobile app enabling users to browse menus, place orders, and sync data in real-time, supporting 10,000+ daily users.
- Tech Stack: Dart, Flutter, Firebase

#### Online Cab Reservation System

- Developed a web-based reservation system for managing vehicle bookings and customer records, handling 10,000+ reservations daily.
- Tech Stack: Java, Servlets, HTML, CSS, JavaScript, MS SQL Server

### SKILLS

**Backend Development:** C#, Java, Python, PHP, .NET, ASP.NET Core

**Frontend Development:** Angular, React, Flutter, JavaScript, TypeScript, HTML, CSS, Bootstrap, jQuery

**Databases:** Microsoft SQL Server, MySQL, Oracle SQL, PostgreSQL, Firebase, MongoDB

**Version Control & Cloud:** Azure DevOps, Git, GitHub

### REFERENCES

**Ms.H.G. Chamika Hulangamuwa,**

Lecturer, School of Information Communication Technology,  
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