

L.M MADUSHA NADIRANGA

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, Dart, Laravel, .NET, ASP.NET Core

Frontend Development: Angular, React, React Native, Flutter, JavaScript, TypeScript, HTML, CSS, Tailwind CSS,

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

Version Control & Cloud: Azure DevOps, Git, GitHub

REFERENCES

Ms.H.G. Chamika Hulangamuwa,

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