Wimukthi Madushan

B.Sc. Engineering Honours Department of Computer Science and Engineering, University of Moratuwa GitHub Profile

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SUMMARY

A motivated Computer Science and Engineering undergraduate with a strong interest in software development. Passionate about software engineering aspects, with solid problem-solving skills and a commitment to continuous learning. Actively seeking internship opportunities to apply my knowledge in real-world projects and gain valuable industry experience.

Areas of Interest: Software Development, Front-end Development, Back-end Development, Mobile Development, Database Management.

EDUCATION

University of Moratuwa

Bachelor of Science (Hons) in Engineering, Computer Science and Engineering

Aug. 2022 - Present CGPA: 3.52/4

Govt. Science College Matale

GCE Advanced Level - Physical Science Stream - 3A passes with a Z-score of 2.2875

Jan. 2015 - Aug. 2020

PROJECTS

• Interactive Library Management System (Mobile and Web) (Ongoing) • 2024

Fifth semester Software Engineering project, I contributed to the development of an interactive library management system. This project involves creating both web and mobile applications for efficient book management and user interaction.

Contribution: Frontend, Backend, Database, Documentation Technologies: React, Node.js, Express, MySQL, React Native

• AI Travel Planner App (Mobile) (Ongoing) 🗘

2024

Developing a mobile app using React Native, incorporating Firebase authentication, to help users find the best travel destinations. The app provides detailed information on places, costs, and personalized recommendations based on the number of travelers (family, alone, or couples).

Technologies: React Native, Expo, Firebase Authentication

• RPAL Interpreter 💭

2024

An interpreter for the functional programming language RPAL consisting of a lexical analyzer, parser, and a CSE machine. The interpreter can execute a given RPAL program by constructing the abstract syntax tree, standardizing the AST, and evaluating the program to get the output.

Contribution: Lexical Analyzer and Parser

Programming Language: C++

In our third semester Database Management System course, we developed a comprehensive Airline Reservation System. This web-based application was designed to handle various functionalities related to flight reservations, including booking, cancellations, and customer management.

Contribution: Database

Technologies: React, Flask, MySQL

• Nano Processor Design 🕠

2023

Second semester's Computer Organization and Digital Design module, we embarked on a project to design a 4-bit nano processor. This processor was capable of performing essential operations such as addition, subtraction, left shift, right shift, and negation.

Contribution: Create Components, Combine components

Technologies: VHDL, Xilinx Vivado

CORE SKILLS

• Web Development: HTML, CSS, React, Node.js, Express

• Mobile Development: React Native

• Database Management: MySQL, MongoDB

• Version Control: Git, GitHub

• Programming Languages: C, C++, Python, Java, JavaScript, TypeScript

• Tools: VSCode, IntelliJ IDEA, Docker, Xilinx Vivado

LICENSES & CERTIFICATIONS

• Introduction to Front-End Development (Meta)	Nov 2023
ullet Introduction to Back-End Development (Meta)	Nov 2023
\bullet Introduction to Databases for Back-End Development (Meta) $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Dec 2023
• Version Control (Meta)	Dec 2023
• Programming with JavaScript (Meta) 🖸	Dec 2023
• React Basics (Meta) 🖸	Jan 2024
• Advanced React (Meta) 🖸	Jan 2024

SOFT SKILLS

- Effective communication and teamwork skills gained through group projects and collaborations.
- Adaptability and quick learning ability in adopting new technologies and methodologies.
- Time management and organizational skills developed through balancing academic and project commitments.

REFERENCES

• PROF.(MS) MEEDENIYA D.A.

Department of Computer Science Engineering University of Moratuwa dulanim@cse.mrt.ac.lk