Wimukthi Madushan

B.Sc. Engineering Honours
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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.

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

- **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++

- **Airline Reservation System (Web)** **2023**
  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**
  In our 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** *Nov 2023*
- **Introduction to Back-End Development** *Nov 2023*
- **Introduction to Databases for Back-End Development** *Dec 2023*
- **Version Control** *Dec 2023*
- **Programming with JavaScript** *Dec 2023*
- **React Basics** *Jan 2024*
- **Advanced React** *Jan 2024*

SOFT SKILLS

- Effective communication and teamwork skills gained through group projects and collaborations.
- Strong problem-solving abilities demonstrated in project work and academic challenges.
- 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.**
  Professor
  University of Moratuwa
  Department of Computer Science Engineering
  `dulanim@cse.mrt.ac.lk`