Wimukthi Madushan

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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: 3.53/4

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 (Web) (Ongoing)** 2024
  Fifth semester Software Engineering project, I contributed to the development of an interactive library management system. This project involves creating web applications for efficient book management and user interaction.

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

- **Interactive Library Management System (Mobile) (Ongoing)** 2024
  Fifth semester Software Engineering project focused on developing a mobile application that complements the web-based library management system. The mobile app facilitates book management and user interactions on-the-go, enhancing accessibility and user experience.

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

- **News App (Mobile)** 2024
  Developed a mobile news application using React Native that fetches real-time news data from the NewsData.io API. Integrated the API to display the latest news articles. Built as a learning project, leveraging online resources, including YouTube tutorials, to improve React Native skills and API integration.

  Technologies: React Native, Expo

- **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++

- **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

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.

LICENSES & CERTIFICATIONS

- **Introduction to Front-End Development (Meta)** ⧉ *Nov 2023*
- **Introduction to Back-End Development (Meta)** ⧉ *Nov 2023*
- **Introduction to Databases for Back-End Development (Meta)** ⧉ *Dec 2023*
- **Version Control (Meta)** ⧉ *Dec 2023*
- **Programming with JavaScript (Meta)** ⧉ *Jan 2024*
- **Advanced React (Meta)** ⧉ *Jan 2024*

REFERENCES

Prof. (Ms) Meedeniya D.A.
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