Asanka Madushan

✉ nnamadushan@gmail.com   📞 071 777 5812   🔗 Portfolio   in Asanka Madushan   ⬡ NnAsankaMadushan

Summary

Motivated and driven final-year Electrical and Information Engineering undergraduate specializing in Software Engineering at the University of Ruhuna. My primary focus is on web development and mobile app development, specializing in frontend development, UI/UX design, and backend development. With a growing passion for AI/ML, I have experience working on predictive modeling, anomaly detection, and integrating machine learning solutions into software applications. I am a knowledge seeker, eager to learn new concepts and continuously improve my skills to stay at the forefront of technology.

Work Experience

Software Engineer Intern   *Oct 2023 – Jan 2024*
Sri Lanka Ports Authority

- Developed the frontend using PHP and backend using Laravel of the Ship Berthing Schedule System Project.
- Worked as a tester in the Electronic Documents Digitization System.

Frontend Developer   *April 2024 - Present*
Waverista

- Working as a frontend developer at Waverista company, which is a startup company.

Projects

Job Bank for Career Guidance Unit of UOR   *Oct 2023 – Jan 2024*
Job Portal System ↗

- Contributed to the third-year software project to develop the web application for the Career Guidance Unit of the University of Ruhuna by designing the prototypes using Figma, developing the frontend using React.js, CSS, and Material-UI, and working on some backend functionalities using Node.js.

Fuel Quota Management System   *May 2024 – Nov 2024*
FuelManagementSystem ↗

- Contributed for developing front-end of the website using React Js and developed front-end of the mobile app using React Native
- Developed user login and register back-end parts using Node Js for four type of users.

AI Virtual Keyboard   *Jan 2024 – April 2024*
Virtual Keyboard ↗

- Contributed for developing a virtual keyboard for final year first semester Image Processing module project.
- Developed the character input recognition part by checking the distance between thumb and index finger (Euclidean Distance) less than a certain distance it may considered an input using python.

IoT Device Threat Detection System using Machine Learning   *Jan 2024 – Nov 2024*
Anomaly Detection ↗

- Developed anomaly detection model with autoencoder algorithm to detect anomalies in real time in a network flow.
- Created a machine learning model by training the CIC IoT 2023 dataset to detect seven IoT threats.
- Developed the frontend for the final-year project to display the trust value of connected devices in a network and implemented a position-changing feature based on the trust score using React Js.

Money Mate Mobile App   *June 2024 – Present*
Money Mate App ↗

- Designed the UI/UX for the project in Figma.
- Created the frontend of the project using React Native.

Job Recruitment Management System *Jan 2022 - April 2022*
- ○ Contributed to a group project to develop a system which provides job seekers to search and apply for jobs by themselves easily and, companies can update the job vacancies and details about the job using C++ and data structure concepts.

Education

University of Ruhuna *March 2020 – Present*
B. Sc. (Hons) Engineering Final Year Undergraduate
- ○ Department of Electrical and Information Engineering, University of Ruhuna.

Areas of Specialties

Development: Web Development, Mobile Development (Full Stack Development)

AI/ML: Machine Learning, Deep Learning

Skills

Programming Skills: Java, C++, C, Python, JavaScript

Database: MySQL, MongoDB

Backend Frameworks: Node.js, Express.js

Tools and Technologies: CSS, HTML, Bootstrap, Object-Oriented Programming (OOP)

Interpersonal Skills: Teamwork, Time Management, Critical Thinking, Video/Photo Editing

Extracurricular Activities

Teakwondo *Jan 2022 – Nov 2024*
Green Junior Belt Holder
- ○ Member of Faculty Teakwondo Team

Ref Media faculty of Engineering *Jan 2021 – Jan 2024*
University of Ruhuna
- ○ Committee Member

AIESEC *Jan 2021 – Jan 2023*
University of Ruhuna
- ○ IGT Team Member Winter Term 21.22
- ○ OGT Team Member Summer Term 21.22
- ○ OGT Team Member Winter Term 22.23

References

Mr. B. Panduka Darshana
Sri Lanka Ports Authority
Information System Division
+94 76 415 7611
pandukadarshana@gmail.com

Dr. Thilina Weerasinghe
Faculty of Engineering, University of Ruhuna
Senior Lecturer
+94 91 224 5765-6
thilina@eie.ruh.ac.lk

Declaration

I hereby attest that the above information is true and correct to the best of my knowledge.

Asanka Madushan
18.11.2024