

# Asanka Madushan

✉ nnamadushan@gmail.com ☎ 071 777 5812 📁 Portfolio in Asanka Madushan 🌐 NnAsankaMadushan

## Summary

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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

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### 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

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### 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.

### Quick Hire Mobile App

June 2024 – Present

[Quick Hire](#) 🔗

- Developing a mobile application using Flutter to connect users seeking the best candidates for tasks with workers searching for small job opportunities. Designed an intuitive user interface, implemented efficient task-posting and job-matching features, and ensured seamless cross-platform performance.

## Money Mate Mobile App

June 2024 – Present

[Money Mate App](#) 

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

## Education

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### 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

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

**AI/ML:** Machine Learning, Deep Learning

## Skills

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

**Database:** MySQL, MongoDB

**Frontend Frameworks:** React, React Native, Flutter

**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

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### 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

## References

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### Mr. B. Panduka Darshana

Sri Lanka Ports Authority  
Information System Division  
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### Dr. Thilina Weerasinghe

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Senior Lecturer  
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## Declaration

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



Asanka Madushan  
15.01.2025