Asanka Madushan

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

Summary

Results-driven Full Stack Software Engineer with hands-on industry experience at BotCalm Private Limited. Currently an Undergraduate in Electrical and Information Engineering at the Faculty of Engineering, University of Ruhuna. Specialized in cross-platform mobile development using Flutter and React Native, with strong expertise in front-end engineering and backend development. Passionate about building high-performance applications and continuously expanding knowledge in AI/ML and workflow automation using n8n.

Work Experience

Associate Mobile Software Engineer   *Aug 2025 – Present*
Botcalm Pvt Ltd

- Developed a blockchain-based cryptocurrency wallet and trading application using Flutter.
- Implemented scalable state management architecture using BLoC for predictable state transitions and maintainable code structure.
- Implemented stock trading functionality including order placement, asset tracking, and transaction execution.

Mobile Software Engineer Intern   *March 2025 – Aug 2025*
Botcalm Pvt Ltd

- Contributed to the development of a blockchain-based mobile application and an AI-driven mobile application using React Native.
- Implemented scalable state management using Redux to handle complex application states and asynchronous data flows.
- Built responsive and performance-optimized mobile interfaces following modern React Native architecture patterns.

Projects

Job Seeker Mobile App ⚲   *Dec 2025 – Feb 2026*

- Developed a cross-platform job marketplace mobile app using Flutter and Firebase with secure user onboarding, email/password and Google sign-in authentication, and profile management.
- Implemented real-time Firestore workflows for posting jobs, applying with custom messages, managing work requests, and updating application/job statuses.
- Built secure in-app messaging with AES-GCM message encryption, Firestore security rules for protected access, and app lock using biometrics/PIN.

LottoVision: Sri Lankan Lottery Ticket Scanner & Result Checker ⚲   *Oct 2025 – Jan 2026*

- Built a cross-platform Flutter mobile app to scan lottery tickets from camera/gallery and extract draw number, number sets, and lucky sign using Google ML Kit OCR with custom parsing logic.
- Integrated NLB and DLB result sources (Dio + HTML parsing), synchronized draw history, and implemented automatic ticket–result matching.
- Developed a prediction module using an ML-ensemble approach, with Hive local caching, Riverpod state management, push/local notifications, and English/Sinhala/Tamil localization.

Reminder Buddy: Voice-Based Smart Reminder App ⚲   *Feb 2026 – Present*

- Developed a Flutter mobile app that converts natural-language text/voice inputs into structured reminders using an offline rule-based NLP parser (date, time, and location extraction).
- Implemented modular architecture with BLoC state management, local persistence using Hive, and full reminder lifecycle flows (create, edit, delete, reschedule) with real-time calendar updates.
- Integrated timezone-aware local notifications and optional Google Calendar sync using Google Sign-In +

Google Calendar API, including upcoming-event fetch and event creation from in-app reminders.

IoT Device Threat Detection System using Machine Learning ⌾ *Jan 2024 – Nov 2024*
- 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 – Dec 2024*
- Created the frontend of the project using React Native.

Education

University of Ruhuna *March 2020 – 2026*
B. Sc. (Hons) Engineering Final Year Undergraduate
- Department of Electrical and Information Engineering, University of Ruhuna.

Skills

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

Database: MySQL, MongoDB

Frontend Frameworks: React, React Native, Flutter

Backend Frameworks: Node.js, Express.js

State Management: Redux, BloC, Cubit

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

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

References

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Declaration

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

Asanka Madushan