NIMANTHA MADHUSHAN

Software Engineer Intern

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SUMMARY

Passionate and results-driven **Full-Stack Developer and Software Engineer** with hands-on experience in **web, mobile, and backend development**. Skilled in building scalable, high-performance applications using modern technologies such as **Flutter, React Native, React, Node, Spring Boot, and SQL/NoSQL databases**. Strong foundation in object-oriented programming (Java, Swing), with a proven track record in real-world projects including e-commerce platforms, education systems, emergency apps, and AI-powered game mechanics. Recently published a **ToDo List app to Google Play (closed testing with 12+ testers).** Adept at collaborating in dynamic environments, contributing to open-source projects, and continuously learning new technologies.

PROJECTS

Clothly – E-Commerce Mobile App
Built a cross-platform clothing e-commerce application with secure Firebase Google Sign-In and robust state management using Provider. Integrated category-based product filtering, size selection, and a real-time shopping cart. Enabled seamless checkout with Stripe payment processing via flutter_stripe and managed dynamic product and cart data using cloud_firestore. Designed a clean, responsive UI for smooth navigation and user engagement. Ensured high reliability and maintainability through comprehensive **unit and integration testing**.
   Tools: Flutter, Firebase (Google Sign-In, Cloud Firestore), flutter_stripe, Provider

InstaLearn – Unified Education Management Platform
Built a web-based education management platform to streamline academic and administrative processes in tuition centers. Features include real-time dashboards, automated exam management, progress tracking, QRbased attendance management, and secure online payments with reminders.
   Tools: React, Spring Boot, Redux Toolkit, Bootstrap, MySQL, GitHub, Figma

Soundly – Music Playlist App
Engineered a cross-platform music playlist app using Flutter and FastAPI for backend services. Includes features such as user authentication, playlist customization, song discovery, and interactive player design.
   Tools: Flutter, FastAPI , Mongodb, GitHub, Figma

Get Safe – Flood Detection & Emergency Assistance App
Engineered a flood detection system and emergency assistance app, integrating React Native for mobile development and Firebase for the backend. Key features include emergency services, real-time flood alerts, and interactive map features.
   Tools: React Native, Firebase, GitHub, Figma

Banking Management System (Java)
Built a banking system created with Java and Java Swing, focusing on secure user login, account management, and transactions.
   Tools: Java (OOP, Java Swing), GitHub

Unreal Engine AI Project Showcase
Built AI-based mechanics and implemented in Unreal Engine 5 to showcase advanced behaviors and AI-driven interactions for game environments.
   Tools: Unreal Engine 5, Blueprints

SKILLS

Programming:
- Dart, Java (OOP, Java Swing),C#, C , C++, Python , JavaScript ,PHP

Databases & Backend:
- MySQL, Firebase, MongoDB, PostgreSQL, FastAPI, Spring Boot, Node.js, Express.js

Web & Mobile Development:
- Flutter, React Native, React, HTML, CSS

Game & 3D Development:
- Unreal Engine 5, Blender

Others
- GitHub, Figma, Docker, AWS

EDUCATION

Bachelor of Computer Science (BCS)
Department of Computer Science,
University of Ruhuna
present |Matara, Sri Lanka

Diploma in English Language British Way
English Academy
2021 | Kalutara, Sri Lanka

G.C.E-Advanced Level (Combined Mathematics , ICT, Physics)
Horana Royal College
2020 | Horana, Sri Lanka

VOLUNTEERING

Volunteer Teacher – STEMUP Educational Foundation
- Conducted coding workshops for students at the CoderDojo program.
- Taught programming fundamentals and problem-solving skills to young learners.

Referee – Intra Faculty Sports Meet 2023
Sports Club, Faculty of Management and Finance, University of Ruhuna
- Officiated as a Kabaddi Referee at the Intra Faculty Sports Meet 2023, organized by the Sports Club.

ADDITIONAL INFORMATION

- **Languages**: English, Sinhalese.
- **Member**: Computer Science Students' Community