



Adithya Senavirathna

Software Engineer Intern

+94 74 279 2183

adithyadilum11@gmail.com

adithyasenavirathna

adithyadilum

adithyadilum.dev

Summary

Undergraduate IT student at the University of Moratuwa with hands-on experience building full-stack applications and leading software development projects. Experienced with TypeScript, React, Next.js, Node.js, ASP.NET, and PostgreSQL, with practical experience in APIs, testing, Docker, and CI/CD. Interested in building reliable, scalable software and solving real-world problems through collaborative engineering.

Education

BSc. (Hons) Information Technology & Management, Faculty of IT, University of Moratuwa 2024 – Present

- CGPA: 3.77

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Object-Oriented Analysis & Design, Database Systems, Web Programming.

Pearson Assured Diploma in IT, Esoft Metro Campus 2023 – 2024

- Covered fundamental IT skills including software development, networking, and cybersecurity.

G.C.E. Advanced Level, Kingswood College, Kandy 2021 – 2023

- 2022(2023) - Biological Science (English Medium)

Technical Skills

Languages: TypeScript, JavaScript, C#, Java, C, SQL

Frameworks & Libraries: Next.js, React, Node.js, Express, .NET, React Native, Expo, REST APIs

Databases & ORMs: MySQL, PostgreSQL, Drizzle, Redis

Tools & Infrastructure: Git, GitHub, Docker, CI/CD, Vercel

Projects

Enterprise IT Asset Management System, Team Lead 11/2025 – Present

- Led a team developing an enterprise IT asset platform for **TIQRI Corporation** covering lifecycle, custody, maintenance, licensing, and financial tracking.
- Designed transaction-backed workflows for bulk asset imports and lifecycle operations while maintaining data integrity and auditability.
- Implemented automated unit, integration, and E2E test suites, utilizing PostgreSQL advisory locks to manage concurrent operations.
- **Tech Stack:** Next.js, React, TypeScript, PostgreSQL, Drizzle ORM, Docker, GitHub Actions

DayBoard - WhatsApp-first Service Business SaaS 05/2026 – Present

- Architected a multi-tenant platform for appointment businesses, combining WhatsApp conversational booking with CRM, scheduling, POS, and analytics.
- Engineered a durable WhatsApp pipeline using Meta Cloud API with signed webhooks, idempotent event processing, background retries, and conflict checking.
- Built a decoupled Next.js frontend and ASP.NET Core backend featuring tenant-isolated data access, automated testing, and CI/CD pipelines.
- **Tech Stack:** ASP.NET Core, Next.js, React, TypeScript, PostgreSQL, EF Core, Meta Cloud API, Docker

Environmental Monitoring Drone & Real-time Dashboard [🔗](#), Team Lead 12/2024 – 08/2025

- Developed real-time quadcopter firmware using C++ and FreeRTOS with multi-rate task scheduling for motor control, dual-loop PID stabilization, and saturation-aware motor mixing.
- Engineered a Next.js/TypeScript mission dashboard to capture, stream, and visualize live environmental metrics alongside flight dynamics, GPS, and system telemetry.
- Integrated continuous environmental data logging and historical analytics to monitor atmospheric trends across past flight sessions.
- Designed 2.4 GHz communication with bidirectional acknowledgement payloads, fail-safe disarming logic, and web-based monitoring interfaces for flight testing.
- **Tech Stack:** C++, ESP32, FreeRTOS, Next.js, React, TypeScript, Tailwind CSS, Firebase Realtime

Hospital Management System (HMS) [🔗](#) 08/2023 – 01/2024

- Built a desktop management system covering patient records, appointments, staff scheduling, bill generation, and medical inventory tracking.
- Designed a relational SQL Server schema to enforce entity relationships, data integrity, and consistent identity across modules.
- Developed custom C#/.NET desktop UI components and event-driven data mapping for synchronized multi-screen administrative workflows.
- **Tech Stack:** C#, .NET Framework, Microsoft SQL Server, WinForms

Experience

Software Developer, IoT & Embedded Systems Labs (IES Labs) 2025 – Present
Developing software solutions for IoT, automation, and cloud-connected systems.

Bot Developer (Slack, Meta apps), Fiverr 2025 – Present | Remote
Built custom Meta API and Slack automation solutions integrating APIs, webhooks, and business workflows.

3D Visualizer, Contra 2024 – Present | Remote
Created high-quality 3D visualizations and interactive product renders for clients across multiple industries.

Community and Leadership

IEEE Computer Society Sri Lanka Section, Member - Editorial Committee 2025 – Present

FIT Future Careers, Web Developer 2025 – 2026

IEEE Student Branch University of Moratuwa, Member - Design Committee 2024 – 2026

Rise Up Mora By IEEE SB UOM, Lead - Design Committee 2025 – 2025

Rotaract Club of University of Moratuwa, Co-Chair - Newsletter 2024 – 2025