

Suthankan Balenthiran

IT Undergraduate | Software Engineer Intern | Java, Spring Boot, React, Go

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🌐 LinkedIn | 🐙 GitHub | 🌐 Portfolio

Summary

Information Technology undergraduate at the University of Moratuwa with hands-on experience building enterprise-style backend, full-stack, and distributed systems using Java, Spring Boot, Go, React/Next.js, REST APIs, gRPC, GraphQL, and PostgreSQL. Strong focus on microservice boundaries, system design, secure API workflows, persistence, testing, CI/CD, and Docker. Experienced in building reliable service integrations and leading team delivery with maintainability and architecture tradeoffs in mind. Seeking a software engineering internship working on real-world platform and backend engineering problems.

Education

BSc (Hons) in Information Technology , University of Moratuwa, Faculty of Information Technology	2024 – 2028
SGPA: L1S1 3.76 L1S2 3.72 L2S1 3.74	
GCE Advanced Level - Combined Mathematics , Jaffna Hindu College	2020 – 2022
Results: 2A, C Z-Score: 1.876	
GCE Ordinary Level , J/Puttur Sri Somaskanda College	2014 – 2019
Results: 9A	

Technical Skills

- **Programming:** Java, Go, C, TypeScript, JavaScript, Python, SQL
- **Backend & Architecture:** Java Spring Boot, Spring Modulith, Microservices Architecture, REST APIs, gRPC, Protocol Buffers, GraphQL, OCPP 2.0.1/WebSockets, system design, Postman
- **Frontend:** React.js, Next.js, React Native, Progressive Web Apps (PWA), HTML, CSS
- **Databases & Persistence:** PostgreSQL, Flyway, relational data modeling, schema design, CRUD workflows
- **Security & Reliability:** Spring Security, JWT/JWS, ES256 signing, idempotency, concurrency handling, Testcontainers, automated testing, fail-closed validation
- **Cloud & DevOps:** Linux, Docker, CI/CD pipelines, Git/GitHub, AWS fundamentals, Cloudflare
- **Engineering Practices:** SDLC, code reviews, SRS documentation, Agile Scrum, Kanban, distributed-systems reliability, maintainability and architecture tradeoffs

Projects

- ProofMesh** — Runtime Governance & Execution Security Platform | Ongoing [🐙 GitHub](#)
- Ongoing runtime-governance platform for governed actions: policy and risk evaluation, governance decisions, approval workflows, and signed execution grants consumed by an enforcement gateway.
 - **Contribution:** Architected the modular Java control plane with Spring Boot and Spring Modulith; implemented PostgreSQL/Flyway persistence, Spring Security authorization flows, validated execution-grant claims, and ES256-signed JWS grants. Current Java suite: 412 tests.
 - Built the Go gateway foundation for RFC 8785 JSON canonicalization, SHA-256 request hashing, strict rejection of malformed JSON and duplicate object keys, and typed environment configuration.
 - **Tech:** Java 25, Spring Boot, Spring Modulith, PostgreSQL, Flyway, Spring Security, Nimbus JOSE/JWT, Go, JCS, SHA-256, Git/GitHub, CI
- VoltGrid** — Distributed EV Charging Network Platform (CSMS) | Ongoing [🐙 GitHub](#)
- Building a distributed EV Charging Station Management System with explicit microservice boundaries, using OCPP 2.0.1 over WebSockets for charger-to-platform communication.
 - **Contribution:** Implemented Station Service workflows for registration, liveness, connector status, transactions and meter samples; added GraphQL read APIs, PostgreSQL/Flyway persistence, idempotency, out-of-order handling, and concurrency-safe processing.
 - Introduced Protocol Buffers and gRPC for synchronous Station Service-to-Authorization Service communication, with Testcontainers-backed integration and concurrency testing.
 - **Tech:** Java 25, Spring Boot, Microservices, OCPP 2.0.1, WebSockets, gRPC, Protocol Buffers, GraphQL, PostgreSQL, Flyway, Testcontainers
- Planora** — Agile Project Management System | Team Lead, 5-member team [🐙 GitHub](#)
- Full-stack project management platform supporting Scrum and Kanban workflows, sprint planning, task boards, and cross-platform access.

- **Contribution:** Led backlog and feature planning, architecture discussions, code reviews, and delivery coordination; built CRUD features across the Next.js frontend and Java Spring Boot backend; managed Git workflows and CI/CD; contributed to React Native and PWA experiences.
- **Tech:** Next.js, React Native, Java Spring Boot, REST APIs, PostgreSQL, Git/GitHub, CI/CD, Agile Scrum, Kanban

OmniHealth — Hospital Management Ecosystem | Full-Stack Developer

 [GitHub](#)

- Centralized hospital-management system supporting patient records, administrative workflows, and complex data relationships.
- **Contribution:** Drafted the Software Requirements Specification (SRS), developed maintainable backend services for secure data retrieval, containerized the application with Docker, and configured Cloudflare for security and routing.
- **Tech:** Backend services, Docker, Cloudflare, SRS documentation, secure data handling

RoverXplorer — Six-Wheeled Environmental Rover

Feb 2025 – Jul 2025

- Remote-controlled six-wheeled rover with rocker-bogie suspension, FPV camera feed, wireless communication, and real-time environmental sensing.
- **Contribution:** Programmed six-motor joystick control; integrated Arduino Mega/ESP32, LoRa, Bluetooth, and sensors; designed a custom EasyEDA PCB; built a Python and React dashboard for live data visualization.
- **Tech:** Arduino Mega, ESP32, EasyEDA, Python, React, JavaScript, LoRa, Bluetooth

Courses and Certifications

- REST API (Intermediate) - HackerRank | 2026
- AWS Educate Introduction to Cloud 101 - Amazon Web Services (AWS) | 2026
- Linux for Cloud and DevOps Engineers - Packt | 2026
- CCNA: Introduction to Networks - Cisco | 2026
- Postman API Fundamentals Student Expert - Postman | 2025
- Developing Front-End Apps with React - IBM | 2025
- Introduction to Software Engineering (with Honors) - IBM | 2025

Leadership and Volunteering

Customer Relation Team Leader — AIESEC, Moratuwa

Feb 2025 – Aug 2025

- Led stakeholder engagement, cross-functional coordination, task ownership, and delivery follow-up.

Customer Relation Panelist — AIESEC, Colombo

Sep 2024 – Feb 2025

- Supported engagement campaigns and maintained communication standards with external stakeholders.

Microsoft Learn Student Ambassador - Alpha — Microsoft

Sep 2023 – Nov 2023

- Promoted technical learning and facilitated discussions on software engineering practices and Microsoft development tools.

References

Ms. M. N. Chandimali

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Ms. Thushitha Manokaran

Senior Software Engineer

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