

MADHUSHAN SANDARUWAN

Senior Software Engineer

+94 771 637 551 | madushansandaru1@gmail.com

linkedin.com/in/madushansandaru1 | github.com/MadushanSandaru1 | madushansandaru1.github.io

PROFESSIONAL SUMMARY

Senior Software Engineer specializing in backend systems and enterprise integrations in the fintech domain. Experienced in designing and building scalable microservices and integration solutions using Java, Spring Boot, Apache Camel, and SQL. Proven ability to optimize API performance and drive architectural decisions while mentoring junior engineers.

WORK EXPERIENCE

Senior Software Engineer - DirectFN Sri Lanka

Sep 2024 - Present

- Led design and implementation of complex enterprise integration solutions using Java, Spring Boot, and Apache Camel
- Drove architectural decisions for integration systems, improving scalability, performance, and reliability
- Guided engineering teams on best practices, code quality, and system design
- Optimized integration workflows and enhanced system efficiency through process improvements
- Strengthened system security and improved testing frameworks for better stability and maintainability

Software Engineer - DirectFN Sri Lanka

Dec 2022 - Aug 2024

- Developed and maintained enterprise integration solutions including NTP ESB, NTP Message Router, and NTP Light-weight API Gateway
- Built 25+ secure integrations with third-party and internal systems using Apache Camel
- Migrated Notification Server to Message Router and integrated 10+ SMS gateways
- Implemented security features including TLS 1.2 for SMTP and JWT-based authentication
- Delivered API Gateway solutions to 5+ clients with rate limiting and load balancing capabilities
- Improved testing efficiency by developing integration simulators
- Collaborated onsite in KSA for 3 months, leading deployment and UAT activities for client delivery

Software Engineer Intern - DirectFN Sri Lanka

Jun 2022 - Nov 2022

- Enhanced Notification Server by enabling TLS 1.2, improving system security and reliability across 5+ live projects
- Developed new reporting features for NTP Report Server using JasperSoft Studio
- Built an Order Testing Tool to streamline testing and validation processes
- Gained hands-on experience with Java, Spring Boot, and enterprise integration systems

EDUCATION

Bachelor of Information and Communication Technology (Honours)

University of Ruhuna | GPA: 3.62 | 2017 - 2022

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript

Frameworks & Technologies: Spring Boot, Apache Camel, Hibernate, REST APIs, Microservices, WebSocket

Integration & Messaging: Enterprise Integration Patterns (EIP), ESB, IBM MQ, RabbitMQ, ActiveMQ, Message Routing

Databases: MySQL, Oracle, MongoDB

Testing: JUnit, Mockito, Selenium

Tools & Platforms: Git, GitHub, Postman, Linux, Jira

Security: OAuth 2.0, JWT Authentication, TLS/SSL

PROJECTS

Enterprise Service Bus (NTP ESB) Integrations

- Developed 25+ secure integrations with third-party and internal systems using Apache Camel
- Applied Enterprise Integration Patterns (EIP) for efficient message routing and transformation
- Improved system efficiency and reduced integration complexity

Light-weight API Gateway

- Designed and delivered API Gateway solutions to 5+ clients
- Implemented JWT authentication, rate limiting, and load balancing
- Ensured secure and scalable API management for enterprise systems

Notification Server (NTP Message Router)

- Led migration of Notification Server to Message Router, improving scalability and reliability
- Integrated 10+ SMS gateways to enable multi-channel communication
- Enhanced system performance and maintainability through optimized routing logic

Integration Testing Simulators

- Built custom integration simulators to improve testing efficiency and reduce dependency on external systems
- Accelerated development and QA processes by enabling reliable test environments

Fuel Pass Platform (Sri Lanka)

- Built a full-stack web and mobile application using React and React Native integrating real-time Fuel Pass APIs
- Implemented OTP-based authentication with JWT session management
- Developed real-time fuel quota tracking, QR code access, and supplier search features
- Designed scalable architecture with shared modules and efficient API state management