



ISHANI SAMARaweera

SENIOR SOFTWARE ENGINEER

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EXPERIENCE

Senior Software Engineer

Ucombinator – Contracted to Sysco Labs (November 2024 – Present)

- Led the end-to-end design and development of a cloud-based food service platform, supporting multi-industry operations and high-volume transactional workflows.
- Architected and implemented Spring Boot backend services ensuring modularity, scalability, and maintainability.
- Designed and optimized RESTful APIs and PostgreSQL data models, improving data access for transactional workloads, reporting, and analytics.
- Collaborated with stakeholders and cross-functional teams to translate business requirements into technical solutions, participating in design reviews, architectural decisions, and technical strategy discussions.
- Provided technical leadership, conducting code reviews, enforcing best practices, and mentoring team members to enhance code quality and delivery efficiency.
- Actively contributed in Agile Scrum teams, participating in sprint planning, estimation, and on-time delivery of production features.
- Led task allocation, created architecture and ER diagrams, defined API contracts, and facilitated technical knowledge sharing across the team.

Software Full Stack Engineer

HDFC Bank (March 2024 – November 2024)

- Owned the end-to-end delivery of a bank-grade Online Ticket Reporting System, handling requirements analysis, system design, development, testing, deployment, and production support independently.
- Designed and implemented a microservices-based backend using Java, Spring Boot, and MySQL, enabling efficient ticket creation, tracking, escalation, and resolution workflows.
- Developed a responsive frontend using React.js and JavaScript, delivering intuitive user interfaces for customers and internal banking support teams.
- Defined application architecture, data models, and API contracts, ensuring scalability, maintainability, and clean separation of concerns.

Software Engineer

Aeternum (Pvt) Ltd (November 2021 – March 2024)

- Designed and developed Java and Spring Boot-based microservices supporting multi-channel web and mobile applications across SaaS platforms.
- Built and maintained RESTful APIs and backend services using Spring Boot, Spring Data JPA, MySQL, and MongoDB, ensuring scalability, maintainability, and performance.
- Integrated event-driven and asynchronous processing using RabbitMQ, enabling reliable message handling and decoupled service communication.
- Drove engineering excellence and delivery by participating in CI/CD pipelines with Jenkins and Gradle, performing code reviews, resolving production issues, and ensuring reliable deployments in an Agile environment.

Software Engineer

Epic Lanka (Pvt) Ltd (March 2017 – October 2021)

- Designed, developed, and owned enterprise-scale fintech platforms including credit card management systems, debit card issuing platforms, merchant acquiring solutions, QR payment systems, and automated bill settlement applications for tier-1 banking clients.
- Implemented and enhanced Java EE and Struts-based backend applications supporting high-volume financial transaction processing, settlement, reconciliation, and card lifecycle management in production environments.
- Acted as module owner for the reporting framework, designing and maintaining 250+ operational, financial, and regulatory reports using Jasper Reports and Apache POI, delivering PDF, Excel, and web-based reporting solutions.
- Worked extensively with Oracle Database, contributing to database schema design, complex SQL development, query tuning, and performance optimization for transaction-heavy fintech systems.
- Led and supported User Acceptance Testing (UAT) and production release cycles, collaborating with business stakeholders, QA teams, and operations teams to validate requirements, resolve defects, and ensure successful go-live deployments.

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PERSONAL PROFILE

Senior Software Engineer with 8+ years of experience designing and delivering enterprise-grade, cloud-native applications in banking, fintech, SaaS and food service domains. Strong expertise in Java, Spring Boot, microservices architecture, REST APIs, and React, with proven leadership in end-to-end system ownership and Agile delivery. Experienced in mentoring engineers and collaborating with cross-functional teams to deliver scalable, high-performance solutions.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python

Backend: Spring Boot, Spring Data JPA, Hibernate, Java EE, Struts

Frontend: React.js, HTML, CSS, jQuery

Database Management: Oracle, MySQL, PostgreSQL, MongoDB

Architecture: Microservices, RESTful APIs, Distributed Systems

Testing: JUnit

Version Control: Git, SVN

Messaging: RabbitMQ

DevOps & CI/CD: Jenkins, Docker, Gradle, Maven

Cloud: AWS

Servers: Tomcat, WildFly, GlassFish

Tools: IntelliJ IDEA, VS Code, Postman, Jasper Reports, Apache POI, Jira, MS-Office NetBeans, Eclipse

Operating Systems: Windows, macOS, Ubuntu

AWARDS & ACHIEVEMENTS

- Sri Lanka Olympiad Mathematics Competition – Achieved High Distinction (2011), Distinction (2010), and Honorable Mention (2008) and ranked 25th among All-Island Top 40 students for exceptional problem-solving skills in 2011.
- APICTA Award Winner 2019, recognized for collaborative project contribution as part of the EPIC CMS team.
- NBQSA 2018 National Overall Gold Award Winner, achieved while working collaboratively on the project as an EPIC CMS team member.

EDUCATION

University of Colombo School of Computing

MSc in Computer Science - 2023
BSc in Computer Science - 2017

Sangamitta Girls' College Galle Class of 2011

GCE Advanced Level - 2012
(Z-Score - 1.5695)
+ Combined Mathematics - B
+ Physics - B
+ Chemistry - B
+ General English - C

Neural Gate Technologies - Diploma

Grade: A

EXTRA CURRICULAR ACTIVITIES

- Served as a student member of IEEE
- Served as an active member of UCSC WIE society and UCSC Firefox club
- Served as a member of school drama society, media unit, athletic team and a junior girl guide association

INTERESTS

Artificial Intelligence, Machine Learning, Cognitive Systems, Dancing, Music, Travelling, Chess

- Mentored and guided Software Engineers, Associate Software Engineers, and Interns, providing technical leadership, code reviews, onboarding support, and knowledge sharing to improve team productivity and code quality.
- Contributed to award-winning fintech platforms including NBQSA National Overall Gold Award and APICTA Award-winning solutions, recognized for innovation and technical excellence.

Software Engineer - Intern

Epic Lanka (Pvt) Ltd (September 2016 - March 2017)

- Contributed to the development of an enterprise credit card management system using Java EE, and Oracle, supporting core payment card processing, transaction management, and customer data handling in a fintech environment.
- Implemented backend and frontend components using Java, SQL, JavaScript, jQuery, HTML, and CSS to support operational and management.
- Assisted in application deployment, testing, and defect resolution on JBoss Application Server, gaining hands-on experience with secure financial systems, role-based access control, and production-ready enterprise applications.

PROJECTS & RESEARCH

Human Facial Expression Analysis and Emotional Status Recognition (Research)

- Developed a machine learning application to detect facial expressions and predict human emotional states.
- Focused on data preprocessing, model training, and evaluation to improve emotion classification accuracy.
- Technologies: Python, TensorFlow, Keras, Pandas

Food Service System

- Designed and developed a cloud-based food service platform supporting order management, product distribution, and customer operations.
- Enabled scalable operations for restaurants, healthcare facilities, and educational institutions.
- Technologies: Spring Boot, React.js, AWS, PostgreSQL

Online Ticket Reporting System

- Built a customer support and issue management system for the banking domain to improve service efficiency and customer satisfaction.
- Implemented role-based access, ticket workflows, monitoring, and reporting features.
- Technologies: Java EE, Spring Boot, React.js, Microservices, MySQL

Credit Card Management System - NBQSA 2018 - National Overall Gold Award Winner

- Contributed to the development of a comprehensive electronic payment card management solution for a DFCC bank.
- Supported card lifecycle management, transaction processing, and reporting functionalities.
- Technologies: Java EE, Struts, Oracle, JavaScript, jQuery, HTML, CSS, JasperReports, JBoss Application Server

EPIC CMS Acquiring Platform - APICTA Award Winner 2019

- Worked on a large-scale merchant acquiring and transaction processing platform supporting end-to-end payment workflows.
- Involved in backend development, reporting, and system enhancements within a high-availability environment.
- Technologies: Java EE, Struts, Oracle, JavaScript, jQuery, HTML, CSS, JasperReports, JBoss Application Server

Psychedelic Patient Monitoring Web Portal

- Developed a secure web portal to collect, store, and analyze patient data for psychedelic therapy programs.
- Integrated asynchronous communication and data processing to support real-time monitoring.
- Technologies: Java EE, Spring Boot, Microservices, MongoDB, RabbitMQ

Incentivio - All-In-One Restaurant Engagement Platform

- Contributed to a multi-channel restaurant engagement platform supporting web, mobile, and in-store experiences.
- Helped enable customer acquisition, loyalty programs, and operational insights.
- Technologies: Java EE, Spring Boot, AngularJS, Microservices, MongoDB, MySQL, AWS, Jenkins

Real Estate Management System

- Developed a microservices-based system to manage residential leasing operations and property data.
- Implemented core modules for property listings, tenant management, and analytics.
- Technologies: Java EE, Spring Boot, Spring Data JPA, Microservices, MongoDB, MySQL