ISHANI SAMARAWEERA

SENIOR SOFTWARE ENGINEER

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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

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

Aeturnum (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.

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

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

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

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