

Rajitha Bandara

Software Engineer | Java · Spring Boot · Microservices · React · AWS
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Professional Summary

Software Engineer with a BSc (Hons) in Information Technology from the University of Moratuwa and full-stack internship experience building production-grade mobile apps and REST APIs with React Native, .NET and C#. Built a microservice e-commerce platform with a Kafka checkout saga, Keycloak security and Jenkins CI/CD. Seeking Software Engineer roles.

Skills

Languages: Java, C#, TypeScript, JavaScript, Python, SQL
Backend: Spring Boot, Spring Cloud (Gateway, Eureka, Config), Resilience4j, .NET Core, Node.js, Express.js
Frontend & Mobile: React, Next.js, React Native, Tailwind CSS, Material UI
Databases & Messaging: PostgreSQL, MySQL, SQL Server, MongoDB, Redis, Apache Kafka
Cloud & DevOps: AWS (EC2, S3, VPC, IAM), Oracle Cloud, Docker, Jenkins, GitHub Actions, CI/CD, SonarQube, Trivy, Nexus, Maven, Git, Linux
Testing & Observability: JUnit, Mockito, Testcontainers, Playwright, Prometheus, Grafana, Zipkin
Architecture & Security: Microservices, RESTful APIs, Event-Driven Architecture, Saga Pattern, OAuth2/OIDC, JWT, Keycloak, RBAC
Practices & Soft Skills: Agile/Scrum, Clean Code, Code Reviews, Problem Solving, Communication, Teamwork, Leadership

Experience

Software Engineer Intern Mar 2025 – Oct 2025 | Colombo, Sri Lanka
Sharemind

- Developed and maintained production-grade React Native (TypeScript) mobile apps across the frontend and .NET/C# backend
- Built RESTful APIs (ASP.NET Web API, SQL Server) for AcademicApp, a client mobile app architected for **1,000+ concurrent users**
- Delivered backend modules for QR-based attendance, payments and financial reporting, secured with role-based access control
- Shipped features in Agile sprints with cross-functional teams and took part in peer code reviews to uphold coding standards
- Tech Stack:** React Native, TypeScript, C#, .NET Core, ASP.NET Web API, SQL Server

Projects

Multi-Vendor E-Commerce Platform (Microservices) Jan 2026 – Aug 2026
Role: Full-Stack Developer | Code: github.com/RajithaUBandara21/e-commerce-app

- Architected a multi-vendor marketplace of **10** Spring Boot microservices behind Spring Cloud Gateway with a Next.js storefront
- Designed an event-driven Kafka checkout saga (stock reservation, Stripe payment) with compensation that releases stock on failure
- Prevented overselling and double charges on checkout with optimistic locking and idempotency keys
- Hardened the API gateway with Resilience4j circuit breakers, retries, timeouts and Redis-based rate limiting
- Secured services with Keycloak (OAuth2/OIDC) and role-based access control for customer, seller and admin roles
- Tested with JUnit and Mockito in every service, plus Testcontainers (PostgreSQL, Kafka) integration and Playwright E2E tests
- Added observability with Prometheus, Grafana and Zipkin; built with Jenkins CI and deployed via Docker Compose on Oracle Cloud
- Tech Stack:** Java, Spring Boot, Spring Cloud, Kafka, Keycloak, PostgreSQL, MongoDB, Redis, Stripe, Next.js, Docker, Jenkins

Offline LLM Email Triage Assistant Sep 2026 – Present
Role: Full-Stack Developer | Code: github.com/RajithaUBandara21/Local-llm

- Built an offline assistant that classifies support emails, sets priority and drafts replies using local LLMs via Ollama
- Enforced structured output with Pydantic schema validation, a feedback retry and a manual-review fallback for invalid replies
- Designed a crash-resumable batch pipeline with mbox/CSV loaders, an email cleaner and SQLite storage with a decision log
- Benchmarked Llama 3.2, Mistral and Qwen 2.5 on latency, tokens/sec, CPU/RAM/VRAM use and JSON validity
- Integrated Gmail via OAuth 2.0 with encrypted refresh tokens, and built a Next.js review UI for support agents
- Structured the FastAPI backend in layers with dependency injection and covered it with **269** pytest tests
- Tech Stack:** Python, FastAPI, Pydantic, Ollama, SQLite, pytest, Next.js, TypeScript, Gmail API

Medicare – Doctor Appointment Booking Platform Aug 2024 – Sep 2024
Role: Full-Stack Developer | Code: github.com/RajithaUBandara21/Medicare-Booking

- Built a doctor appointment booking platform with patient, doctor and admin roles, doctor profiles, reviews and bookings
- Developed Express.js REST APIs on MongoDB with JWT auth, bcrypt hashing, role-based route guards and ownership checks
- Designed a responsive React and Tailwind CSS UI with Cloudinary image uploads, and deployed the frontend and API to Vercel
- Tech Stack:** MongoDB, Express.js, React, Node.js, Tailwind CSS, JWT, Vercel

Multi-Tenant SaaS ERP Platform (In Progress) Aug 2026 – Present
Role: Full-Stack Developer | Code: github.com/RajithaUBandara21/erp-bf

- Building an Odoo-style multi-tenant SaaS ERP on Spring Boot 4 and Next.js 16, starting with the identity and tenancy core
- Implemented JWT access and refresh tokens (SHA-256 hashed in Redis), session revocation and Google OAuth 2.0 sign-in
- Designed role-based access control with custom roles and fine-grained permissions enforced through Spring method security
- Added org invite codes, email-verified self-join with admin approval, org switching and an OTP-protected super-admin login
- Rate-limited auth endpoints with Redis, added audit logging and versioned the PostgreSQL schema with **21** Flyway migrations
- Wrote **401** JUnit tests, including Testcontainers integration tests, plus Playwright E2E tests on a localized Next.js UI
- Tech Stack:** Java 21, Spring Boot 4, Spring Security, JWT, PostgreSQL, Flyway, Redis, Testcontainers, Next.js, TypeScript

Laboratory Information Management System (LIMS)

Jun 2023 – Dec 2024

Role: Developer (Team Project)

- Built a full-stack MERN app for patients and lab staff with billing, barcode generation, online payments and report delivery
- Implemented role-based JWT authentication, RESTful APIs and real-time report-status tracking in a Material UI frontend
- Tech Stack:** MongoDB, Express.js, React, Node.js, Material UI

Jenkins CI/CD Shared Library for Microservices

Dec 2025

Role: Developer | Code: github.com/RajithaUBandara21/e-com-app-ci-shared-library

- Built a Groovy Jenkins Shared Library that gives every microservice the same **10**-stage pipeline, from checkout to Docker push
- Ran Jenkins, SonarQube and Nexus on isolated AWS EC2 instances in a private VPC, with builds triggered by GitHub webhooks
- Added SonarQube analysis and Trivy file-system and image scans before publishing artifacts to Nexus and images to Docker Hub
- Replaced duplicated per-service pipeline code with shared steps, cutting delivery time from **hours to minutes**
- Tech Stack:** Jenkins, Groovy, Maven, Docker, SonarQube, Trivy, Nexus, AWS (EC2, VPC), GitHub Webhooks

Education

BSc (Hons) in Information Technology

Completed 2026

Faculty of Information Technology, University of Moratuwa | Awaiting convocation

G.C.E. Advanced Level – Physical Science Stream

Peradeniya Central College, Kandy

Awards

- Top 10 Finalist** – Code Rush 2024, INTECS, Faculty of IT, University of Moratuwa
- Top 15 Finalist** – Hack Stream 3.0, IEEE, University of Ruhuna
- Top 20 Finalist** – OpenHack 2023, IIT Sri Lanka
- Member of the Month** – Fitmoment Media Unit, Faculty of IT, University of Moratuwa

Certifications

- AWS Cloud Technical Essentials – Amazon Web Services (AWS)
- Claude Code in Action – Anthropic
- Ultimate DevOps Bootcamp – School of DevOps

Leadership & Volunteering

Software Developer Trainee – DevLabs, Faculty of IT

Jan 2023 – Jun 2024

- Built and enhanced client-facing web applications with faculty and industry partners, and ran workshops for academic and industry projects

President – Fitmoment Media Unit, Faculty of IT

Mar 2025 – Present

- Lead project timelines, resources and deliverables for the unit’s flagship event, and run skill-building workshops for members

Main Coordinator, Career Fair 2024 – INTECS, Faculty of IT

Mar 2024

- Coordinated timelines, resources and teams with industry partners, faculty and students to deliver the university career fair

Main Batch Representative (Second Year) – Faculty of IT

Apr 2023 – Apr 2024

- Led a team that built and maintained the batch learning platform, and managed communications for batch activities

References

Mr. Dilumika Navodya, *Lecturer*, Department of Information Technology, University of Moratuwa
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