

RKD Thisara Sandeep

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Professional Summary

Full-Stack Developer with a Higher Diploma in Software Engineering (Merit) and a proven track record of building production-ready applications. Currently building a **multi-tenant SaaS POS system** with branch isolation, staff permissions, inventory management, and reporting for multiple branches.

Proficient in **ASP.NET Core**, **Angular**, **SQL Server**, **Docker**, and **AWS**. Passionate about clean architecture, domain-driven design, and building software that solves real business problems.

Work Experience

Examinations Invigilator | British Council, Sri Lanka

2025 – Present

- Invigilated and managed **50+ high-stakes examination sessions**, ensuring 100% compliance with strict test protocols.
 - Coordinated with candidates and administrative staff to ensure smooth execution of exams for **200+ candidates**.
 - Demonstrated professionalism, attention to detail, and time management in a fast-paced environment.
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Projects

Point of Sale (POS) System | Full-Stack Developer (Personal Project)

2024 – Present

POS application: <https://pos.thisara.dev>

GitHub Backend - https://github.com/ThisaraRajapakshe/POS_System

GitHub Frontend - <https://github.com/ThisaraRajapakshe/POS-Frontend>

V1 – Production-Ready POS:

- Developed a full-featured POS application using **ASP.NET Core** and **Angular**, with secure **JWT authentication** and role-based authorization.
- Designed a normalized **SQL Server** database with Entity Framework Core, including complex relationships for products, orders, customers, and inventory.
- Built RESTful APIs with clean separation of concerns using **Repository Pattern**, **DTOs**, and **Dependency Injection**.
- Created a dynamic, responsive front-end with Angular, featuring hierarchical data binding for categories, products, and order items.
- Implemented core features including invoice generation, real-time stock updates, sales history, and reporting.
- Deployed the application on **AWS Lightsail** with **Docker**, **Nginx**, and **SSL** for production readiness.
- CI/CD**: Automated build and deployment pipeline using **GitHub Actions**.
- Testing**: Unit tests for both **frontend (Jasmine/Karma)** and **backend (xUnit)**.

Multi-Tenant SaaS POS (V2) | Full-Stack Developer (Personal Project)

2025 – Present

- Refactoring the monolithic POS into a scalable **multi-tenant SaaS** architecture with BranchId-based data isolation.
- Applying **Domain-Driven Design (DDD)** principles: defined explicit **Aggregates** (e.g., Order aggregate with OrderItem value objects) and utilized **Domain Events** to handle cross-aggregate logic.
- Implementing global query filters to enforce tenant isolation at the database level (EF Core).
- Implemented branch-specific access and inactive-branch access blocking.
- Deployed V2 with Docker, Nginx and MySQL on AWS Lightsail.

Education

Higher Diploma in Software Engineering and Computing (Classification: Merit) Awarded July 2023

Cardiff Metropolitan University, UK (In partnership with ICBT, Sri Lanka)

Capstone Project: Built a full-stack inventory management system with ASP.NET Core and Angular, implementing real-time stock tracking and role-based access.

Technical Skills

Category	Skills
Frameworks	ASP.NET Core, Angular
Back-End	C#
Front-End	JavaScript, TypeScript, HTML, CSS
Databases	SQL, Database Design, Management, and Integration
Testing	xUnit (Unit Testing), Jasmine/Karma (Frontend Testing)
Tools & Methods	Git (GitFlow), GitHub Actions (CI/CD), REST APIs, JWT, Entity Framework Core, Docker, Nginx, AWS Lightsail (EC2-based VPS), Linux, Domain-Driven Design (DDD), Repository Pattern, Clean Architecture, Dependency Injection

Professional Attributes

- **Problem-Solving:** Strong analytical and problem-solving abilities.
- **Adaptability:** Quick learner with a proven ability to adapt to new technologies.
- **Collaboration:** Team player with a collaborative and positive mindset.
- **Detail-Oriented:** Excellent attention to detail and commitment to clean code.

Achievements & Extracurricular Activities

- **Martial Arts:** 1st Kyu (Brown Belt) in Karate - Japan Karate Do Mariyashikai Organization (JKMO). Actively training for Black Belt certification.
- **Chess:** School Championship winner

Languages

- English
- Sinhala

References

- Available upon request.