

Isandith Minayana Perera

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Portfolio Site

Professional Summary

Detail-oriented Software Engineering Intern with experience in full-stack development using .NET 8, Spring Boot, and Next.js. Currently contributing to enterprise-level systems at Management Systems (Pvt) Ltd, specializing in microservices architecture and real-time data integration. Committed to building scalable, user-centric solutions and growing within a collaborative technical team.

Technical Skills

- **Programming:** Python, C#, Java, TypeScript, React, Kotlin, Dart, SQL
- **Frameworks/Tools:** .NET 8, Spring Boot, Next.js, Flask/FastAPI, Docker, Angular, Flutter
- **Architecture:** Microservices, Kafka (Event-driven), SignalR, JWT Auth, REST APIs
- **Databases:** PostgreSQL, Oracle 11g, MySQL, Firebase
- **Design & Multimedia:** Figma, Adobe After Effects, Premiere Pro, Photoshop, Tailwind CSS

Experience

- **Management Systems (Pvt) Ltd** Colombo, Sri Lanka
Full Stack Developer (Intern) Jun 2025 – Present
 - **EFMS System (Independent Lead):** Independently designed and implemented a secure Employee Fund Management System from scratch using .NET Core 8 and Oracle 11g.
 - **Architecture & Scalability:** Architected an event-driven system using Kafka for decoupled processing and SignalR for real-time UI updates without page refreshes.
 - **Security & RBAC:** Engineered a dynamic, database-driven Role-Based Access Control system with JWT auth, allowing flexible permissions for Super Admins and Operation users.
 - **Frontend Engineering:** Built the complete frontend using Next.js and Redux, implementing role-aware rendering for fund summaries, loans, and insurance records.
 - **Documentation:** Created comprehensive artifacts including user personas, activity sequences, and user journeys to streamline the development lifecycle.

Projects (Click titles to view repository)

- **AI Forecasting & Analysis Platform (Ongoing)** Full Stack Developer
Python, Next.js, PostgreSQL, Gemini API 2025
 - **API Integration:** Developed a Python backend to extract text from user-uploaded PDF financial files and pass content to the Google Gemini API for analysis.
 - **Question Answering:** Implemented a query system where users can ask questions about their uploaded documents, with the AI generating context-aware answers from the file data.
 - **System Architecture:** Connected a Next.js frontend to a PostgreSQL database to securely store user sessions, upload history, and document metadata.
- **InfraTrack – Infrastructure Reporting (Group Project)** Frontend Lead
Flutter 2025
 - **UI Implementation:** Designed and coded the complete frontend user interface (UI) for the entire application, creating a seamless citizen-centric reporting experience.
- **Student Task Manager (Personal Project)** Full Stack Developer
.NET 8, Next.js, PostgreSQL 2025
 - **Task Scheduling:** Developed a comprehensive timetable system where students can manage profiles and organize daily academic tasks effectively.
 - **Deadline Logic:** Implemented automated deadline tracking algorithms that trigger reminders and alerts as task due dates approach.
- **Ticketing Booking System (Academic Project)** Full Stack Developer
Spring Boot, Angular, MySQL 2023
 - **Multi-Threading Logic:** Engineered a concurrent booking engine using Spring Boot and Java threads to demonstrate safe simultaneous transaction processing, effectively preventing race conditions and ensuring data integrity during real-time ticket sales.
- **Interactive Dice Game (Academic Project)** Mobile Developer
Kotlin, Android SDK 2024
 - **Game Logic:** Developed a two-player game featuring score state management, animated UI interactions, and logic-driven game cycles with win-condition checks.

Education

- **University of Westminster** London, UK
Bachelor of Computer Science (Undergraduate) Expected 2027