

Shenal Perera

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SKILLS

Back End | Java • Spring Boot • Express • NodeJS

Front end | Angular • React

Database | OracleDB • PostgreSQL • MySQL

Miscellaneous | Docker • Kubernetes • Jenkins • Kafka • gRPC

EXPERIENCE

ISA | Software Engineer

Jan 2024 - Present

Departure Control System (DCS) – System Revamp & Modernization

- Migrated a legacy Struts-based Java 8 system to Java 17 and Spring Boot.
- Redesigned architecture from session-based monolith to RESTful microservices.
- Implemented **gRPC** services for high-performance inter-service communication.
- Integrated **Kafka** for asynchronous messaging between services.
- Contributed to **React**-based front-end development during modernization.
- Designed and implemented **multi-tenant** architecture supporting multiple tenants.

Online Check-in Web Application

- Maintained and enhanced the existing AngularJS + Spring Boot application.
- Resolved production bugs and implemented new features based on airline needs.
- Led frontend migration to Angular (TypeScript) improving performance and maintainability.
- Achieved an estimated 20% faster load time and improved code maintainability

Avtra | Software Engineer Intern

Dec 2022 - May 2023

Flight Management System – IATA Message Integration

- Developed a parser for IATA-standard text messages to automate airline flight schedule updates.
- Created backend logic in Spring Boot to process parsed data and generate flight schedule entries.
- Built frontend views using Angular (TypeScript) to visualize and manage schedules.

EDUCATION

University Of Peradeniya

Dec 2018 - May 2023

B.Sc. Engineering (Hons) in Computer Engineering

GPA: 3.61 / 4.00

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Distributed Systems