Dilshan Yapa

Portfolio | LinkedIn | GitHub

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SOFTWARE ENGINEER

Passionate **Software Engineering** undergraduate with strong expertise in **full-stack development, system architecture, and modern web technologies**. Proficient in **Java, Python, JavaScript, React, Spring Boot** with hands-on experience in **database design, RESTful APIs, and scalable application development**. Demonstrated ability in building robust, user-centric applications using industry best practices and emerging technologies.

TECHNICAL SKILLS

Languages	:	Java, Python, JavaScript, TypeScript, HTML, CSS, Kotlin
Frameworks	:	Spring Boot, React.js, Next.js, Node.js, Express.js
Databases	:	MongoDB, MySQL, MariaDB
Dev. Tools	:	Git, GitHub, RESTful APIs, JWT, WebSockets
Cloud & DevOps	:	Docker, AWS, Azure, CI/CD, Linux, Nginx

EDUCATION

Sri Lanka Institute of Information Technology Malabe, Sri Lanka
Bachelor of Science in Software Engineering – CGPA: 3.39 *June 2023 – Present*

PROJECTS

AVANES - Voice-Assisted Examination System Source Code
Spring Boot 3, React 19, WebSockets, Vosk AI

- Architected comprehensive examination platform with Spring Boot backend and React frontend for accessible online testing
- Implemented real-time voice recognition using Vosk AI with WebSocket integration for hands-free exam navigation
- Developed secure magic link authentication system with device fingerprinting and IP validation for exam access control
- Built intelligent audio streaming handler supporting voice commands for question navigation and answer selection
- Created automated exam lifecycle management with scheduled status updates and real-time notifications system
- Designed module-based notification system with grade release alerts and notice management for educational institutions

E-Commerce System - Scalable Architecture Backend | Frontend
MERN Stack, JWT, RESTful APIs Live Demo

- Built high-performance, scalable e-commerce platform with comprehensive product management and user authentication
- Designed RESTful API architecture with comprehensive error handling and data validation
- Implemented secure payment integration and order management system with real-time inventory tracking

- Developed responsive frontend with dynamic product catalog, shopping cart, and user profile management
- Integrated cloud-based MongoDB deployment with optimized database queries and indexing strategies

Support Desk System (Ongoing)   Backend Source
TypeScript, Node.js, Forum Backend

- Developing comprehensive customer support platform with TypeScript for robust ticket management system
- Architected microservices-based forum backend with real-time communication features for efficient support operations
- Implemented user authentication, role-based access control, and advanced ticket routing algorithms
- Integrated real-time notifications and messaging system for seamless customer-agent communication

Modern Portfolio - Full-Stack Application   Source Code
React 19, Docker, CI/CD, Nginx   Live Demo

- Engineered production-grade portfolio application using React 19 with modern development practices
- Implemented responsive design principles and optimized performance with code splitting and lazy loading
- Developed automated CI/CD pipeline with GitHub Actions for continuous integration and deployment
- Demonstrated containerization with Docker and cloud deployment strategies for scalable web applications

SkyLuxes - Airline Ticket Reservation System   Source Code
PHP, MySQL, JavaScript, HTML, CSS

- Developed full-stack airline reservation platform with comprehensive flight management and booking system
- Implemented user authentication, role-based access control, and secure payment processing workflow
- Created dynamic booking interface with advanced search functionality, filtering options, and real-time availability
- Built administrative dashboard with flight scheduling, user management, and comprehensive reporting features
- Designed responsive UI with intuitive navigation and seamless user experience across all device types

CERTIFICATIONS

- Multipass & VM Security – Udemy (Feb 2025)
- Web Design for Beginners – University of Moratuwa (Jan 2024)
- Programming in Python 2 – University of Moratuwa (Dec 2023)
- Python for Beginners – University of Moratuwa (Jun 2023)

REFERENCES

- Available upon request