Dilshan Yapa

Portfolio | LinkedIn | GitHub

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SUMMARY

Software Engineering Student with comprehensive experience in **full-stack development** across multiple programming languages and frameworks. Proficient in **JavaScript, TypeScript, Java, Python, and PHP** with hands-on experience in both **frontend and backend development**. Strong foundation in **software engineering principles**, **object-oriented programming**, **data structures and algorithms**, and **database design**. Demonstrated expertise in **system architecture**, **API development**, and **DevOps practices** through multiple project implementations. Proven ability in **problem-solving, analytical thinking**, and **collaborative software development** with a passion for learning emerging technologies.

EDUCATION

Sri Lanka Institute of Information Technology Malabe, Sri Lanka
BSc (Hons) in Information Technology Specialising in Software Engineering *June 2023 – Present*

- Strong foundation in software engineering fundamentals: **Data Structures, Algorithms, OOP Concepts**
- Relevant Coursework: **Software Engineering, Database Systems, Web Development, System Analysis & Design**
- Comprehensive training in **full-stack development, API design, and database optimization**
- Active student with hands-on experience in modern software development practices and methodologies

FULL-STACK DEVELOPMENT EXPERIENCE

E-Commerce System - Complete Full-Stack Application Backend Source | Frontend Source
Node.js, Express.js, ReactJS, MongoDB, Docker, CI/CD Live Demo

- Built complete full-stack application using **Node.js/Express.js** backend and **ReactJS** frontend
- Implemented comprehensive database schema design and query optimization using **MongoDB**
- Developed responsive user interface with modern **CSS and JavaScript** for enhanced user experience
- Integrated **Docker containerization** and established **CI/CD pipelines** using GitHub Actions
- Demonstrated strong problem-solving skills and collaborative development in team environment

Modern Portfolio - Full-Stack Web Application Source Code
React 19, Vite 6, TailwindCSS 4, Node.js, Docker Live Demo

- Engineered modern full-stack portfolio application using **React 19** frontend with **Vite 6** build optimization
- Implemented responsive component-based architecture with **TailwindCSS 4** for enhanced user experience
- Demonstrated problem-solving skills through performance optimization and modern **JavaScript** frameworks
- Applied containerized deployment using **Docker and Nginx** for consistent environment management
- Established automated **CI/CD pipeline** with GitHub Actions showcasing adaptability to DevOps methodologies
- Showcased excellent communication skills through portfolio design and professional presentation

Support Desk System - Enterprise Full-Stack Development Backend Source
TypeScript, NestJS, Advanced Database Design, Team Collaboration

- Developing scalable full-stack application using **NestJS framework** with **TypeScript**
- Architecting **RESTful API endpoints** and implementing frontend components for ticket management
- Applying critical thinking and analytical skills for complex **system architecture** decisions
- Working effectively in collaborative team environment with structured **Git workflow** and code reviews
- Adapting to new technologies and methodologies throughout the development process

SkyLuxes - Full-Stack Airline Reservation System Source Code
PHP, MySQL, JavaScript, CSS, RESTful APIs

- Developed complete full-stack application with **real-time booking system** and **payment processing**
- Implemented comprehensive **MySQL database design** with optimized frontend user interface
- Built **RESTful API endpoints** and responsive frontend for flight search and booking management
- Demonstrated excellent communication skills through **user-centric design** and intuitive interfaces

Infinity Arcade - Full-Stack Gaming Platform   Source Code
Java, JavaScript, CSS, Database Management

- Architected multi-user full-stack system with **role-based authentication** and dynamic UI
- Implemented **Java-based backend** with **JavaScript frontend** for interactive gaming experience
- Applied **object-oriented programming** principles and database integration techniques
- Utilized problem-solving skills for complex **user management** and gaming data handling

TECHNICAL SKILLS

Programming Languages	:	JavaScript, TypeScript, Java, Python, PHP, C
Software Development	:	Object-Oriented Programming, Data Structures & Algorithms, Design Patterns
Web Technologies	:	Frontend (ReactJS, HTML5, CSS3), Backend (SpringBoot, Node.js, Express.js, NestJS)
Database Systems	:	MongoDB, MySQL, Database Design, Query Optimization, Data Modeling
Development Tools	:	Git Version Control, Docker, CI/CD Pipelines, RESTful API Development
System & Architecture	:	System Design, Software Architecture, Testing & Debugging, Performance Optimization

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- <u>Multipass & VM Security – Udemy (Feb 2025)</u> - System Administration & Security
- <u>Web Design for Beginners – University of Moratuwa (Jan 2024)</u> - Web Development Foundations
- <u>Programming in Python 2 – University of Moratuwa (Dec 2023)</u> - Advanced Programming Concepts
- <u>Python for Beginners – University of Moratuwa (Jun 2023)</u> - Programming Fundamentals

CORE TECHNICAL COMPETENCIES

- Software Development Life Cycle (SDLC)
- Object-Oriented Programming & Design
- Data Structures & Algorithm Implementation
- Database Design & Management
- Design Patterns
- Version Control & Code Quality Assurance

PROFESSIONAL SKILLS & ATTRIBUTES

- Analytical & Problem-Solving Skills
- Software Testing & Debugging
- Team Collaboration & Communication
- Agile Development Methodologies
- Continuous Learning & Technology Adaptation
- Project Management & Documentation

REFERENCES

- Available upon request