

Dilshan Yapa

Portfolio | [LinkedIn](#) | [GitHub](#)

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PROFESSIONAL SUMMARY

Software Engineering undergraduate with demonstrated expertise in **full-stack development** and **systems programming** across JavaScript, TypeScript, Java, and Python ecosystems. Proven track record of architecting and deploying production-ready applications with **400+ combined downloads** across published VS Code and GNOME Shell extensions. Strong foundation in **modern web technologies**, **system-level programming**, **database design**, and **DevOps practices**. Experienced in implementing scalable solutions with clean, maintainable code while following SOLID principles and industry best practices.

TECHNICAL PROJECTS & DEVELOPMENT EXPERIENCE

Git Time Machine Plus - VS Code Extension

TypeScript, VS Code Extension API, Node.js, Git

[GitHub](#) | [VS Code Marketplace](#) | [OpenVSX](#)

300+ Downloads

- Engineered production-ready VS Code extension in TypeScript for professional Git commit history management and metadata editing
- Implemented **dual-view architecture** with sidebar tree integration and bottom panel view, providing seamless user experience across VS Code interfaces
- Designed **enterprise-grade safety system** with automatic backup branches, remote commit detection, and one-click undo functionality to prevent accidental history rewrites
- Built intelligent bulk operations supporting **multi-commit editing** with visual date/time picker, progress tracking, and summary table for efficient workflow
- Integrated **VS Code Webview UI Toolkit** with theme-aware design, real-time synchronization, and smooth animations for professional user interface
- Published to **VS Code Marketplace and OpenVSX**, achieving full offline functionality with automatic Git operations detection

ScreenToSpace - GNOME Shell Extension

JavaScript, GNOME Shell API, GSettings, GLib

[GitHub](#) | [GNOME Extensions](#)

130+ Downloads

- Developed intelligent workspace management extension for GNOME Shell that automatically organizes maximized and fullscreen windows
- Architected using **SOLID principles** with modular design: separate modules for event handling, window filtering, placement logic, and workspace management
- Implemented **multi-monitor support** with dynamic workspace handling across multiple displays and intelligent window placement strategies
- Built configurable preferences system using GSettings with internationalization support for multiple languages
- Created automated build and deployment scripts for seamless installation and development workflow
- Published to **GNOME Extensions platform**, applying Single Responsibility Principle ensuring maintainability and extensibility

E-Commerce Platform - Full-Stack MERN Application

JavaScript, Node.js, Express.js, MongoDB, ReactJS, Docker, CI/CD

[Backend](#) | [Frontend](#)

- Architected and developed scalable e-commerce system with **RESTful API backend** using Node.js/Express.js and MongoDB
- Implemented comprehensive **database schema design** with product management, user authentication, order processing, and Firebase integration
- Built responsive ReactJS frontend with Vite bundler, state management, shopping cart functionality, and seamless user experience
- Applied **security best practices**: JWT authentication, password hashing, input validation, and injection prevention
- Configured **CI/CD pipeline** with Docker containerization, GitHub Actions, and automated deployment workflows demonstrating DevOps proficiency
- Utilized **Git version control** with branching strategies for distributed development and code collaboration

EDUCATION

Sri Lanka Institute of Information Technology
BSc (Hons) in Information Technology Specialising in Software Engineering

Malabe, Sri Lanka
June 2023 – Present

- Specialized coursework: **Advanced Software Engineering, Enterprise System Architecture, Database Management Systems, Web Technologies**
- Technical expertise: **Object-Oriented Programming (Java), Modern JavaScript Development, Python Programming, Algorithm Design & Analysis**
- Development methodologies: **Agile/Scrum practices, Software Testing, DevOps principles, System Design Patterns**
- Practical experience through multiple team-based software development projects with industry-standard tools and practices

TECHNICAL PROFICIENCY

Languages	: TypeScript, JavaScript, Java, Python, PHP
Frontend	: ReactJS, NextJS, Vite, Tailwind CSS, Responsive Design, Component Architecture
Backend	: Node.js, Express.js, NestJS, RESTful APIs, Firebase Integration
Databases	: MongoDB, MySQL, Mongoose ORM, Database Design
DevOps & Tools	: Git/GitHub, Docker, CI/CD Pipelines, GitHub Actions, Shell Scripting
Extension Dev	: VS Code Extension API, GNOME Shell Extension API, Webview UI Toolkit
Core Concepts	: Data Structures & Algorithms, SOLID Principles, Design Patterns, OOP, MVC Architecture

CERTIFICATIONS & CONTINUOUS LEARNING

- Multipass & VM Security – Udemy (Feb 2025) - DevOps and virtualization technologies
- Web Design for Beginners – University of Moratuwa (Jan 2024) - Modern web development practices
- Programming in Python 2 – University of Moratuwa (Dec 2023) - Advanced Python programming
- Python for Beginners – University of Moratuwa (Jun 2023) - Python fundamentals

KEY STRENGTHS

- **Full-Stack Proficiency** across modern tech stacks
- **Extension Development** with VS Code and GNOME
- **Systems Programming** and API integration
- **Database Expertise** in design and optimization
- **DevOps Practices** with CI/CD workflows
- **SOLID Principles** and clean architecture

PROFESSIONAL QUALITIES

- **Fast Learner** adapting to new technologies
- **Detail-Oriented** with focus on code quality
- **Problem-Solving** with algorithmic thinking
- **Self-Motivated** continuous improvement
- **Team Collaboration** and communication
- **Best Practices** advocate