

Naleena Kumarasinghe

SOFTWARE ENGINEERING

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Education

NSBM Green University 2023 - Present

BSc (Honours) in Computer Networks – UGC

Kingswood College, Kandy 2007 - 2021

Advanced Level – Business Studies, Accounting and ICT

Projects

MyClinic - Medical Clinics POS Solutions (Group Project | 2024)

A comprehensive healthcare administration platform designed to digitize patient records, streamline prescription billing, and optimize pharmaceutical inventory tracking for medical clinics.

- Developed a robust inventory management module that monitors drug stock levels, supplier orders, and expiry dates, featuring real-time data visualization and automated status updates.
- Implemented a secure, role-based authentication system to manage access permissions between doctors and staff, ensuring patient data privacy and integrity across the application.
- Technologies: React, Node.js, Express, MySQL, Tailwind CSS, Recharts, JWT, Figma.

Warehouse Management System (University 2nd Year Group Project | 2025)

A centralized logistics administration platform designed to digitize inventory tracking, streamline order fulfillment, and optimize supply chain visibility for warehouse operations.

- Developed a comprehensive inventory control module that monitors product lifecycles, tracks stock levels across multiple storage locations, and handles Advanced Shipping Notices (ASN) to ensure data accuracy.
- Implemented a robust order processing system to manage delivery orders and incoming shipments, featuring automated status updates and precise tracking of order items to reduce fulfillment errors.
- Designed a responsive, user-friendly interface for warehouse staff to manage stock movements and view real-time inventory reports, improving operational efficiency and reducing manual data entry.
- Technologies: Java (J2EE, Servlets, JSP), MySQL, Bootstrap 5, JDBC, MVC Architecture.

FocusTube - Browser Extension (Personal Project | 2025)

A lightweight productivity browser extension designed to eliminate digital distractions by selectively hiding the YouTube home feed while preserving search and subscription functionality.

- Engineered a dynamic content script using MutationObserver to detect and suppress video feed elements in real-time, effectively handling DOM changes within YouTube's Single Page Application (SPA) architecture.

- Implemented persistent state management using the Chrome Storage API, allowing users to toggle features on/off via a custom popup interface with immediate inter-tab synchronization and visual feedback.
- Optimized extension performance by targeting specific high-traffic DOM elements (ytd-rich-grid-renderer) to ensure minimal resource usage and zero impact on site load times.
- Technologies: JavaScript, HTML5, CSS3, Chrome Extensions API (Manifest V3), DOM Manipulation.

ODinor - E-Commerce Store (University 1st Year Group Project | 2024)

A full-stack fashion retail platform featuring a dynamic customer storefront and a comprehensive administrative backend for inventory and sales management.

- Developed a custom Content Management System (CMS) enabling administrators to perform CRUD operations on products with complex attributes (sizes, colors, pricing) and manage multi-file image uploads.
- Engineered a responsive frontend user experience featuring video integration, dynamic product filtering, and a persistent shopping cart system utilizing LocalStorage for seamless session management.
- Implemented a secure, session-based authentication system for the admin dashboard to protect sensitive modules such as order processing, stock tracking, and customer data analysis.
- Technologies: PHP, MySQL, JavaScript (jQuery), HTML5, CSS3, Bootstrap Figma.

Technical Skills

Languages: JavaScript, TypeScript, Java, HTML, CSS, C

Frontend: ReactJS, NextJS, Tailwind CSS, GSAP, Framer Motion

Database: MySQL, MongoDB, PostgreSQL

Backend: NextJS, NodeJS, JavaServlet

Other tools: Git, Linux, Figma, Photoshop

Soft Skills

Communication, teamwork, Problem solving, Adaptability