

Kalpa De Silva

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PROFILE

Third-year Software Engineering undergraduate (GPA 3.3) with practical experience in full-stack web development and mobile applications. Proficient in the MERN stack, Java, and Android development. Proven ability to deliver deployed web solutions for commercial clients and engineer complex academic projects using MVC architecture.

EDUCATION

BSc (Hons) Information Technology (Specializing in Software Engineering) 2023 – 2027
SLIIT University
GPA : 3.1

SKILLS

- **Languages:** Java, JavaScript (ES6+), C, C++, PHP, Kotlin, Python, SQL.
- **Web Technologies:** React.js, Node.js, HTML5, CSS3, REST APIs.
- **Mobile:** React Native, Android (Java/Kotlin).
- **Databases:** MySQL, MongoDB
- **Tools & Concepts:** Git, VS Code, OOP, MVC Architecture, SDLC, Agile.

PROJECTS

Ayurveda Hotel Management System

- Architected a full-stack web application facilitating online booking of Ayurveda packages and product purchases.
- Implemented a secure backend API with Node.js to handle user authentication, inquiry processing, and customer reviews.
- Designed a responsive front-end interface using React, optimizing the user journey for potential resort guests.

Staff Management Portal

- Developed a web-based internal communication system featuring Role-Based Access Control (RBAC) for different staff levels.
- Engineered the database schema in MySQL to efficiently store employee profiles and communication logs.
- Utilized MVC architecture to ensure code maintainability and separation of concerns.

Online Examination System

- Built a dynamic examination platform supporting timed tests with automated result calculation and generation.

- Wrote complex SQL queries to manage a large database of questions, student records, and historical results.

Habit Tracker Application

- Developed a wellness application using Kotlin and Android Fragments, focusing on efficient state management across different screen sizes.
- Implemented background services using WorkManager and AlarmManager to deliver reliable hydration notifications that persist across app restarts.
- Built a lightweight data persistence layer using SharedPreferences to store daily habits and mood logs without the overhead of a complex database.
- Integrated MPAndroidChart to visualize weekly wellness trends, enhancing user engagement through data analytics.

Nature Cup Mobile App

- Designed a high-fidelity frontend interface for a coffee restaurant, utilizing a hybrid approach of Java and Kotlin for interoperability.
- Engineered a dynamic "Cart" feature that handles frontend logic for item quantity adjustments and real-time price calculation.
- Created a responsive, card-based UI using RecyclerViews to display categorized menus (Coffee, Tea) effectively across various device densities.

WORK EXPERIENCE

Web Developer

January 2023 – Present

Sathvilla & Naadi Ayurveda Resort

- Designed and deployed the official commercial website using WordPress, significantly improving the resort's digital footprint.
- Integrated third-party booking engines and contact forms, directly streamlining the customer reservation process.
- Managed ongoing site maintenance, security updates, and database backups to ensure 99.9% uptime.

CERTIFICATIONS

CISCO Networking Academy

IT Essentials & Get Connected

2022

National Certificate

Computer Hardware Technician – Lalith Athulathmudali VTC

2022