Buddhima Vilochana

Software Engineering Undergraduate

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SUMMARY

Software Engineering undergraduate with hands-on experience in developing scalable web applications using the MERN stack. Skilled in backend optimization, problem-solving, and teamwork. Passionate about building efficient, user-friendly solutions and adapting to new technologies.

EDUCATION

Sri Lanka Institute of Information Technology (SLIIT)
BSc (Hons) in Information Technology (Specialization in Software Engineering)
Oct 2022 – Present

St. Aloysius' College, Galle
GCE Advanced Level - Physical Science Stream (2018 - 2021)

SKILLS

Frontend: ReactJS, NextJS, Flutter, HTML, CSS (Tailwind, Bootstrap), JavaScript
Backend: Node.js, Express.js, PHP, Java
Databases: MongoDB, Firebase, MySQL, SQL Server
Programming Languages: C, C++, Java, Python, R
Other Tools: Git, Figma

PROJECTS

MERN Authentication System (2024) ↗

An individual full-stack authentication system for secure user management, including features like registration, account verification, login, logout, and password reset.

- **Tech Stack**: **MongoDB, Express.js, React.js, Node.js, bcrypt, JWT, Nodemailer.**

FieldExpert Farm Management System (2024) ↗

A web app for farmers to manage agricultural data (crop records, pests, and disease tracking).

- **Contributions**: Implemented Sales & Distribution function to streamline processes.
- **Tech Stack**: **MongoDB, Express.js, React.js, Node.js, Tailwind CSS**.

Restaurant Management Web Application (2024) ↗

Developed a full-stack web application using the **MERN stack** to manage restaurant tasks such as orders, menus, and reservations.

- **Contributions**: Implemented **Kitchen Management** with automated email notifications.
- **Tech Stack**: **MongoDB, Express.js, React.js, Node.js, Tailwind CSS**, **EmailJs**

Railway Ticket Reservation Web Application (2023) ↗

A web application for railway ticket reservations, offering features like train schedules, seat selection, and inquiry management.

- **Contributions**: Implemented the Inquiry Management function to streamline user inquiries and improve CRUD operations.
- **Tech Stack**: **HTML, CSS, JavaScript, Java, MySQL**

OceanicCare Mobile Application (2024)

Developed a mobile app for marine conservation with features like Marine Life Encyclopedia, Cleanup Events, and Sustainable Seafood Guide.

- **Contributions:** Designed and built the user interface for the Marine Life section using Flutter and Dart, with CRUD functionality for user feedback. Integrated Firebase for data storage.
- **Tech Stack: Flutter, Dart, Firebase**

Weather App (2024)

Built a real-time weather app with city suggestions. Optimized UI for smooth performance.

- **Tech Stack**: **React.js, Tailwind CSS, OpenWeather API**
- **Live Demo:** weatherz.app

FREELANCE WORK

illumin-labs | December 2024 – Present

- **Planet First Web Application (2025)**

  A web-based eco-focused platform promoting sustainable living through environmental education, green initiatives, user engagement, and carbon footprint calculation.
  - **Contributions**: Developed the Carbon Footprint Calculator, integrated PHPMailer for the Contact Us feature, implemented a PDF Report Generator using FPDF, and built data retrieval components for the Cases and Blog sections.
  - **Tech Stack**: **HTML, Bootstrap CSS, PHP, JavaScript, PHPMailer, FPDF Library**

- **React Portfolio (2024)**

  A dynamic, interactive portfolio website built with ReactJS to showcase their Portfolio.
  - **Tech Stack**: **ReactJS, Tailwind CSS, JavaScript**

COURSE WORKS

- Object-Oriented Programming (C++ and JAVA)
- Database Management System (Oracle and SQL)
- Data Structures and Algorithms
- Probability and Statistics
- Computer Networks
- Mobile Application Development
- UI/UX Engineering

EXTRACURRICULAR ACTIVITIES

- Member of SEDS SLIIT (Since 2024)
- **2nd Runners Up** – Mini Hackathon at SLIIT 2024

REFERENCE

Gayathri Buddhika | Software Engineer IFS R&D International (pvt) Ltd
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