Buddhima Vilochana

Software Engineering Undergraduate

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SUMMARY

Enthusiastic Software Engineering undergraduate skilled in full-stack development with experience in React, Node.js, and databases like MongoDB and MySQL. Passionate about building efficient, user-friendly applications, with project experience and a strong foundation in frontend and backend technologies.

EDUCATION

Sri Lanka Institute of Information Technology: Oct 2022 – Present
BSc (Hons) in Information Technology Specializing in Software Engineering
- Expected Graduation Date: Oct 2026
- CGPA: 2.81

ST Aloysius' College, Galle: 2018 – 2021
GCE Advanced Level, Physical Science Stream

SKILLS

Frontend Development | ReactJS, HTML, CSS, Bootstrap, JavaScript**,** Flutter
Backend Development | NodeJS, Express, Java, PHP
Databases | MongoDB, Firebase, MYSQL, SQL Server, SQLite
Programming Languages | C, C++, JAVA, Python, R
Mobile Application Development | Kotlin, Flutter
Operating Systems | Ubuntu

PROJECTS

FieldExpert Farm Management System - 2024

Developed a web application to help farmers manage their agricultural data, such as crop records, pest and disease information
- **Contribution:** Implemented a Sales and Distribution function to streamline the sales process and enhance distribution efficiency. This feature was built using **MongoDB**, **Express.js**, **React.js**, **Node.js** and styled with **Tailwind CSS**.
- **Repository Link:** Frontend, Backend

MediCare Web Application - 2024

Developed a full-stack web application using the **MERN stack** to manage medical tasks such as patient records, appointments, and prescriptions.
- **Contribution:** Implemented an Appointment Management function that allows users to view available times for doctors upon selection, enhancing scheduling efficiency. This feature was built using **MongoDB** for data management, **Express.js**, **React.js** for the user interface, and **Node.js**, styled with **Tailwind CSS**.
- **Repository Link:** Frontend, Backend

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.
- **Contribution:** Implemented a Kitchen Management function that enables the system to send email notifications when necessary. This feature was built using **MongoDB**, **Express.js**, **React.js**, **Node.js**, and **EmailJS** for email communication within the system, styled with **Bootstrap CSS**.

[OceanicCare Mobile Application](#) **- 2024**

Developed a mobile application focused on marine conservation, featuring functionalities such as a Marine Life Encyclopedia, Beach Cleanup Events, Sustainable Seafood Guide, and Ocean Pollution.

- **Contribution:** Designed and built the user interface for the Marine Life section using **Flutter** and **Dart** and implemented CRUD functionality to allow users to submit feedback, using **Firebase** for data storage and integration

[Railway Ticket Reservation Web Application](#) **- 2023**

Built a user-friendly front-end interface using HTML, CSS, and JavaScript for train schedules, seat selection, and reservations, collaborating with back-end in Java and MySQL

- **Contribution:** Implemented the Inquiry Management function to streamline user inquiries and improve CRUD operations, utilizing **HTML**, **JavaScript**, and **CSS** for the frontend, **Java** for the backend, and **MySQL** as the database management system.

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
- Member of St. Aloysius' college, Danuma Minima Sansadaya (2014 - 2017)

LANGUAGES

- Sinhala (Native)
- English

REFERENCE

Gayathri Buddhika
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UPULA PERERA | Electronics Engineer.
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