KASUN BANDARA

Undergraduate

✉ Kasungayan333@gmail.com 📞 +94718931512 📍 Danthure, Pilimathalawa. in Kasun Bandara

🔗 Personal Portfolio ⌂ Kasun09

Profile

Hard working student with good study skills, strong academic records and readiness to take on demanding assignments. Apply education and personal talents to learn new subjects in detail and delve into challenging topics. Learns quickly and brings advanced Frontend Developing and UI/UX designing.

Education

NATIONAL INSTITUTE OF BUSSINESS MANAGMENT (2024-PRESENT), *Faculty of Computing and Engineering*
- B.Sc.(Hons) in Computing

ESOFT METRO CAMPUS KANDY (2023-2024)
- Diploma in Information Technology

St, SYLVESTER'S COLLEGE KANDY (2013-2022)

G.C.E Ordinary Level (2018)
G.C.E Advance Level - Physical Science Stream (2022)

Projects

Fish Tank Monitoring System – Mobile App (Kotlin/Jetpack Compose Project)
- Developed an IoT-based mobile application to monitor aquarium/fish farm conditions in real-time.
- Integrated ESP32 sensors for temperature, water level, and pH measurements, syncing data with Firebase.
- Implemented a dashboard to display live sensor readings and historical data for easy tracking.
- Designed a clean and interactive user interface using Jetpack Compose for seamless user experience.

Personal Portfolio Website ⧉
- Developed a fully responsive portfolio website showcasing projects and skills with a strong focus on UI/UX design.
- Created interactive animations and smooth transitions using Framer Motion to enhance user engagement.
- Built modular, reusable React components and applied Tailwind CSS for a clean, scalable interface.
- Deployed on Vercel, optimizing performance, accessibility, and intuitive navigation for seamless user experience.

Front-End Development Project: KB-Shoes Storefront ⧉
- Designed a clean, interactive shoe shop interface with CSS Variables for seamless Dark/Light mode switching.
- Enhanced user experience by integrating Lucide Icons and custom JavaScript event listeners for smooth navigation and visual feedback.
- Dynamically rendered product grids and detailed modals using JSON-structured data.
- Optimized performance with efficient DOM manipulation and CSS transitions, delivering a premium "luxury brand" feel.

Productivity Dashboard – Frontend Web Application (React, LocalStorage, Framer Motion)
- Developed a React-based productivity dashboard for task and schedule management.
- Implemented date-based task filtering with an automated "missed tasks" detection system.
- Integrated persistent data storage using the browser LocalStorage API to retain user data.
- Designed an adaptive dark mode UI with smooth animations using Tailwind CSS and Framer Motion.

Shanii Residence – Hotel Management Website (PHP/XAMPP Project)
- Developed a dynamic web application for **Shanii Residence** to manage room bookings and food orders.
- Implemented a **customer portal** to view available rooms, make bookings, and order meals online.
- Built an **admin portal** to manage bookings, track payments, and maintain customer records.
- Created **separate logins and dashboards** for customers and admin to ensure security and role-based access.

SmartRoute+ – AI-Based Route Optimization System (Machine Learning Project)
- Implemented a system for **optimal route selection** using **Dijkstra's algorithm and shortest path algorithms**.
- Visualized routes with **Matplotlib and NetworkX** in Python.

Library Management System (C#)
- Developed a desktop application to manage books, students, and issue/return records.
- Features include: Add/View Books, Add/View Students, Issue Books, Return Books, and Home Dashboard.

Fish Tank Monitoring System (IoT Project)
- Developed an IoT-based aquarium monitoring system using **ESP32, temperature, and water-level sensors**.
- Sent live data to **Firebase** and displayed readings via a **Kotlin-based mobile app**.

Autonomous Smart Robot Car (Arduino Project)
- Designed and built an Arduino-based robot car capable of **grass cutting, vacuuming, and self-charging**.
- The system **maps an area**, cuts grass, vacuums debris, and automatically returns to a **charging station** when battery is low.

Hard Skills

Programming Languages
- JS
- Java
- Python
- C#
- C
- Kotlin

Databases
- MySQL
- Firebase Realtime database

Front-End Frameworks
- React
- HTML
- Tailwind
- CSS

Others
- git
- Postman
- Figma
- PhotoShop

Soft Skills

- Creative Thinking
- Time management
- Project Management
- Responsibility & Honesty
- Fast learning

Languages

- English
- Sinhala

References

Mr.Manjula Kulathunga, *Senior Software Engineer,* Wysheit Technologies
pmkkulathunga@gmail.com, +94776200029

Ms. Anjula Weerasinghe, *Consultant/ Lecturer, Science Department of IT,* NIBM Kandy
anjula@nibm.lk, +94 71 322 9158