

# KASUN BANDARA

## Undergraduate

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 Personal Portfolio  Kasun09

## Profile

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Software Engineering undergraduate and Frontend Developer (Intern level) with hands-on experience building responsive and interactive web interfaces using React, JavaScript, HTML, and CSS. Strong focus on UI/UX, component-based architecture, and real-world project development. Actively learning backend fundamentals to better understand full-stack workflows.

## Education

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### 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 (DiTEC)

### St. SYLVESTER'S COLLEGE KANDY (2013-2022)

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

## Projects

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### 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.

### 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.

### 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**

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### **Programming Languages**

- JS
- Java
- Python
- C#
- C
- Kotlin

### **Front-End Frameworks**

- React
- HTML
- Tailwind
- CSS

### **Others**

- git
- Postman
- Figma
- PhotoShop

### **Databases**

- MySQL
- Firebase Realtime database

## **Soft Skills**

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

## **Languages**

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- English
- Sinhala

## **References**

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**Mr. Manjula Kulathunga**, Senior Software Engineer, Wysheit Technologies  
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**Ms. Anjula Weerasinghe**, Consultant/ Lecturer, Science Department of IT, NIBM Kandy  
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