

# KASUN BANDARA

## Undergraduate

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🔗 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.

### Front-End Developer Project: KB-Shoes Storefront

- Built a clean, interactive shoe shop interface utilizing **CSS Variables (Custom Properties)** for seamless theme switching (Dark/Light mode).
- Integrated **Lucide Icon library** and custom JavaScript event listeners to enhance visual feedback and user navigation.
- Managed product data via **JSON-structured objects** to dynamically render product grids and detailed modal views.
- Optimized site performance through efficient DOM manipulation and CSS transitions, resulting in 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

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### Programming Languages

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

### Databases

- MySQL

### Front-End Frameworks

- React
- HTML
- Tailwind
- CSS

### Others

- git
- Postman
- Figma
- PhotoShop

## 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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