

# Sunera Sandaruwan

B.Sc. Engineering Honors  
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## Profile

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As a Computer Science and Engineering undergraduate, I am passionate about web development and enjoy creating user-friendly, efficient web applications. I am eager to apply my programming skills to real-world projects, known for quickly learning new tools and technologies and thriving in team settings. I aim to contribute to projects that drive innovation and make a positive impact.

## Education

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### **B.Sc. (Hons) in Computer Science and Engineering (Undergraduate)**

University of Moratuwa (2022 – present)

### **Dharmasoka College, Ambalangoda**

2012 - 2020

GCE Advanced Level Examination – Physical Science Stream- 3A passes

## Projects

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### **Luxury Hotel & Restaurant Information Management System**

**June 2024 - Present**

Created a hotel web application where customers can easily find information, book rooms, and leave reviews. Added an AI chatbot to answer customer questions, especially about the restaurant. Built a Virtual Waiter app that lets guests order food, customize their meals, and track their orders, reducing the need for waitstaff. Developed tools for staff to manage and update orders and for hotel managers to handle reservations and employee details.

Technologies: React.js, Flutter, Spring Boot, MySQL, Docker, Kubernetes, Google Cloud

### **Student Progress Report Generate System**

**Nov 2023 – Dec 2023**

Developed a Student Progress Report Generation System that allows teachers to import Excel sheets with students' marks for each subject. The system then generates a PDF report for every student, detailing their marks, rank, and average across all subjects.

Technologies: React.js, Express.js, Node.js, MYSQL, Redis, JWT

### **Supply Chain Management**

**Oct 2023 – Dec 2023**

In our 3rd semester, developed a Supply Chain Management System for a production company, handling the distribution of products across multiple cities using trains and trucks. Created a database to manage orders, track deliveries, and schedule drivers and trucks efficiently.

Implemented procedures to ensure data consistency and generated reports for sales, order tracking, and workforce management.

Technologies: React.js, Express.js, Node.js, MYSQL

### Microprocessor Design

Mar 2023 – June 2023

In our 2nd semester's Computer Organization and Digital Design module, we embarked on a project to design a 4-bit microprocessor. This processor was capable of performing essential operations such as addition, subtraction, left shift, right shift, and negation.

Technologies: VHDL, Xilinx Vivado

### RPAL Interpreter

Mar 2024 - May 2024

An interpreter for the functional programming language RPAL consists of a lexical analyzer, a parser, and a CSE machine. The interpreter can execute a given RPAL program by constructing the abstract syntax tree, standardizing the AST, and evaluating the program to get the output.

Programming Language: Python

## Core Skills

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- **Web Development** - HTML, CSS, React.js, Node.js, Express.js, Spring Boot
- **Database Management** - MySQL, MongoDB
- **Programming Languages** - Java, JavaScript, C++, Python
- **Tools and Software** - Git, Docker, Kubernetes, Postman, VSCode
- **Languages** - Sinhala (Native), English

## Competitions & Achievements

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- 2nd Runners up IESL Techno Hackathon (2023)
- 5th place at SLIIT Bashway (2023)
- Member of National Olympiad Mathematics Squad (2016)
- Member of National Olympiad Science Squad (2012)

## References

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