Sahan Dilip Gunathunga

Computer Science & Engineering Undergraduate

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📍 Matara, Sri Lanka in LinkedIn/Sahan-Dilip

○ github.com/SahanDilip

Profile

I am an ambitious undergraduate passionate about technology and eager to apply my knowledge in industry. With strong self-management and adaptability under pressure, I am ready to take the first step towards becoming a professional engineer and make valuable contributions to the society.

Education

2021 – present	**B.Sc. Engineering (Hons)** *University of Moratuwa* Specialized in Computer Science and Engineering CGPA 3.47 / 4.0
2017 – 2020	**GCE Advanced Level | 2020** *ST. Thomas Boys' College Matara* Passed with 3 A's Z-score – 2.3472 Island Rank - 297
2012 – 2017	**GCE Ordinary Level | 2017** *ST. Thomas Boys' College Matara* Passed with 9 A's

Projects

Orphanage Management System (Ongoing)
- As my Semester 5 software project, I contributed to developing a web application to streamline the management of orphanages and their fostering processes. Designed for use by child protection authorities, orphanages, and general users, the app efficiently tracks and manages records, improving oversight and support for children in care.
- **Tech Stack:** React, PostgreSQL, Node.js, Express, Prisma ORM

E-Commerce Platform(Ongoing)
- As a personal project, I am developing an e-commerce platform where customers can place orders for food items based on their preferences. The platform includes an admin panel for managing sales in the store according to customer needs.
- **Tech Stack:** React, Node.js, Express, MongoDB

Human Resource Management system
- This is the second semester DBMS project, designed by our team to manage HR in a company, including managers, employees and one administrator. In this project, I mainly overlooked Data Base Technologies Used
- **Teck Stack**: React, MySQL, Node.js, Express

Medibox Project
- Developed a Smart Medibox using an ESP32 module, DHT22 sensor, and OLED display to indicate medication times and monitor storage conditions. Utilizing the Wokwi platform, implemented features to set time, configure up to three alarms for medication reminders, and track temperature and humidity levels. Created a Node-RED dashboard to display real-time temperature data and provide controls for adjusting settings
- **Software and Tools**: C++, Node Red, Wokwi

Nano Processor Design Project

- Designed a 4-bit nano processor to do addition, subtraction, left shift, right shift, and negation. My role in the team was to design some components in the processor
- **Software, Tools & Lanquages** : VHDL Language

RPAL Compiler

- Developed a lexical analyzer and parser for processing RPAL language code as part of a team. My key responsibilities included devising an algorithm to convert Abstract Syntax Trees (AST) into Standardized Trees (ST) and designing the Control Stack Environment (CSE) machine.
- **Languages:** C++

Extracurricular Activities

- **Leo Club Of University of Moratuwa**
  Cheif Activity Coordinator   2024 | Present
  Activity Coordinator   2023 | 2024
  Member   2022 | Presesnt
  Project Chairperson | Mahesh Abeywickrama Memorial Debate Competition & Pera Man Thanuma   2023

- **IEEE Student Branch University of Moratuwa**
  Project Chairperson | MoraUXplore 2.0   2024
  Member at Web and Media Committee
  2022 | 2023
- **SLIOT Challange**
  Lead at Delegate Handling Committee   2023
- **EXMO**
  Logistic Committee Member   2023
- **Career Fair - Department of Computer Science & Engineering**
  Company Coordinator   2024

Technical Skills

Programming Languages

- Python
- Java
- C++
- VHDL (Hardware)

Database

- MySQL
- PostgreSQL
- MongoDB

Web & App Development

- React
- Javascript
- HTML

Version Control

- Git | GitHub

Soft Skills & Interests

Photography   Event-Oranizing   Public Speaking

References

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