



# SAHAN LELWALA

[GitHub](#)   
[Linkedin](#)   
Kandy, SL 

## COMPUTER ENGINEERING (UG)

### CONTACT

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### EDUCATION

**BSc in Computer Engineering**  
University of Ruhuna, SL  
2021- Present

**High School**  
Kingswood College, Kandy, SL

### SKILLS

Innovation  
Problem Solving  
Leadership  
User Interface Designing  
Communication  
Creativity  
Robotics  
Electronics  
Teamwork  
Agile Methodology  
Software Designing

### LANGUAGES

English  
Sinhala

### PROFILE

A driven 3rd year Computer Engineering undergrad at the UoR, SL, with a passionate for Software Development and Robotics & Automation. Proficient in Git to AWS, and an array of programming languages, I specialize to designing user interfaces. Furthermore, as an innovator in robotics & automation, actively engaged in IEEE activities, from organizing workshops to participating in technical events and committed to leveraging technology for positive change.

### EXPERIENCE

**Programming Languages:** C, C++, C#, Java, Python, JavaScript, TypeScript, CSS, Tailwind CSS, Assembly, VHDL, Verilog

#### Web Development:

Web Technologies – React.js, Angular.js, Node.js, Express.js, Spring Boot  
UI/UX Designing – Figma, WPF  
Databases – MySQL, MongoDB, MongoDB Atlas  
DevOps – AWS

#### AI Development:

Machine Learning - Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn  
ANN – TensorFlow, PyTorch, OpenCV

#### Robotics & Automation:

Embedded Systems - MPLAB X, Atmel Studio  
HDL – VHDL, Verilog, Modelsim  
Microcontrollers – Arduino, Node MCU, Raspberry PI

#### IDEs & Others:

Git, GitHub, Jira, VS Code, Visual Studio, JetBrains, Eclipse  
Linux OS  
Computer Networking – Cisco Packet Trace

### ACHIEVEMENTS

**Red Cypher (2024) – CTF Competition**  
2<sup>nd</sup> Runners-up for team “1<sup>st</sup> Lane”

**Eminence 4.0 (2024) – Technical Competition**  
Champions for team “MINT Sparks”

**HaXtream 2.0 (2023) - Competitive Programming Competition**  
7<sup>th</sup> place for team “1<sup>st</sup> Lane”. Among 80+ teams

**XbotiX (2023) - Robotics Competition**  
6<sup>th</sup> place for team “MINT Sparks”. Proudly led a talented team



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### EXTRACURRICULAR ACTIVITIES

#### IEEE Student Branch UOR

- **Logistic Team Lead (SparkLink-2023)**

Manage deliverables, delegates and meetings as well.

- **Member / Volunteer**

As an active member, dedicated to promoting technical knowledge within the engineering community.

#### Mehewara

- **Mathematics Teacher (O/L)**

A seminar series organized by the FoE, UoR for O/L students all across Sri Lanka.

#### Tutor

- **Physics Tutor (A/L)**

Guiding AL tuition with dedication.

- **Science Tutor (Grade 8,9)**

Passionate about guiding students in the field of science.

### PROJECTS

- **Pets Adaption web Application using MERN Stack**

This Project, developed "Find Your FurMate," a MERN stack project. This website boasts modern neumorphism design and seamless functionalities for browsing, adding, adopting pets. With user authentication, CRUD operations, image uploads, and search capabilities.

- **Flight Delay Prediction using Machine Learning (Python)**

This group project, we focused on using ML algorithms to predict flight delays in the US domestic air traffic system, the year of 2020 over 500 000+ data, we aim to develop a predictive model that can predict flight delays with (SVM 93.1% and KNN 87.86%) high accuracy.

- **Human Following Robot with Arduino UNO**

This project implements a Human Following Robot. The robot is equipped with sensors that allow it to detect objects, particularly humans, and follow their movements.

- **Student Management System using WPF (C#)**

This project utilizes WPF (XAML/C#) using MVVM Pattern to create a graphical user interface for managing student information.

- **ATM Application using Data Structures (C++)**

This project is a Command Line Interface (CLI) ATM application It implements various banking operations

- **32bit RISC Processor using HDL (Verilog)**

This project presents a 32-bit RISC processor with a memory controller. The processor features a streamlined architecture for faster execution times. Verilog HDL for implementation and ModelSim for simulation.

- **End-to-End Table Reservations & Management (Restaurant Facing) Web Application**

This ongoing group project involves using Angular, Spring Boot, and Tailwind CSS.

\*All the above projects and more projects are available in my [Linkedin](#), [GitHub](#) accounts

### REFERENCES

#### Dr. Rajitha Udawalpola

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Faculty of Engineering,  
University of Ruhuna.  
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