



# SAADIA JAMEEL

Computer Engineering Undergraduate

## PROFILE

I am an enthusiastic, self-motivated student. I strive for the best in all that I do. I have strong creative and analytical skills. I would call myself a good team player with an eye for detail.

## CONTACT

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📍 Kandy, Sri Lanka

🌐 [LinkedIn](#)

📁 [github.com/SaadiaJameel](https://github.com/SaadiaJameel)

📁 [portfolio](#)

## PERSONAL SKILLS

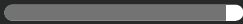
Effective Communication

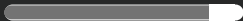
Persuasion

Leadership

Collaboration

Language skills

English  95%

Sinhala  90%

Tamil  30%

German  5%

## TECHNICAL SKILLS

Programming Languages

Python, C, Java, Verilog HDL,  
ARM Assembly, PHP in HTML, JavaScript

Database Systems

MySQL, FireBase

Frameworks and platforms

Android Studio, Laravel framework, Flutter

Project Management Tools

GitHub

Libraries

OpenCV, numpy, matplotlib, pandas,

## EDUCATION

**BACHELOR OF THE SCIENCE OF ENGINEERING**

University of Peradeniya 2020 February - Present

Current GPA - 4.0/4.0

Batch Rank - 1/407

**G. C. E. ADVANCED LEVEL**

Hillwood College, Kandy 2016 - 2018

Z Score- 1.9914

District Rank- 36 (within the top 1.6% in the Island)

**FIT-IN-DEUTSCH 2** 2015

B Pass

## COMPETITIONS

**HACKATHON | GROUP** 2023 May- Present

Inter- university hackathon organized by ACES.

Currently working on building an AI driven solution for social services.

**HACKFEST | GROUP** 2022

Inter- university hackathon organized by ACES.

Rank (healthcare category) - 1 (out of top 20 chosen teams)

**ACES- PRE CODERS | GROUP** 2022 November

A 12 hour coding competition organized by ACES.

Qualified to the final round.

## SCHOLARSHIPS

**SCHOLARSHIP FOR 2021-** 2022

**PUBLIC TRUSTEE DEPARTMENT, SRI LANKA**

Award for the best academic performance in the first year.

**TILAK PEIRIS AWARD** 2021

An award for the best performance in the general program in Engineering.

**PERADENIYA UNIVERSITY ALUMNI ASSOCIATION  
OF NEW SOUTH WALES SCHOLARSHIP-**

2021

An award for the best performance in engineering in the first year.

# ACADEMIC PROJECTS

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## ORAL CAVITY REGION DETECTION SYSTEM | GROUP

2022 March - Present

- Developed a web-based application for oral cavity image analysis, utilizing machine learning algorithms to accurately segment anatomical structures within uploaded images.
- Contribution- Developed and deployed certain features of the front end, such as navigation menus, forms, and interactive elements using *Node.js*, *MongoDB*, *Express.js* and *React.js*.
- Project code and documentation available at [[documentation](#)].

## CYBER-PHYSICAL SYSTEMS PROJECT | GROUP

2022 October- 2023 January

- Programmed an embedded system that evaluates the severity of road rule breakings with regards to the crossing of road lines using *Python (OpenCV)*, *JavaScript* and *cloud firestore*.
- Contribution- Implemented a device utilizing store-bought sensors and a Raspberry Pi microcontroller and designed a mobile application that allows users to track and monitor rule violations based on location, severity, date and time.
- Project code and documentation available [here](#).

## ANDROID APPLICATION FOR STUDENT RESULT MANAGEMENT

2021 November - 2022 March

- Developed an application for undergraduates to keep track of their academic performance, progress and standing against other students in the batch.
- Used technologies *MySQL*, *Andriod Studio*, *Spring Boot*, *Postman* and *JAVA*.
- GitHub code and documentation can be found [here](#).

## DATABASE FOR EQUIPMENT MANAGEMENT | GROUP

2021 November - 2022 March

- Designed and implemented a fully functional database system to manage reservations, cancellations, equipment borrowings and misplacements at a gym using *MySQL* and *PHP*.

## BUILDING AN 8-BIT SINGLE CYCLE COMPUTER PROCESSOR- RISC V

2021 November - 2022 March

- Built an 8- bit single cycle processor from scratch, with an Arithmetic Logic Unit (ALU), register file, control logic, data memory, data cache, instruction memory and instruction cache using technologies *ARM Assembly* and *Verilog HDL*.
- Implemented a memory hierarchy to optimize data access and processing speed.
- Link for code and documentation can be found [here](#).

## DATA VISUALIZER FOR ANALYTICS

2021 August - 2021 September

- Created a data visualization solution that utilizes data gathered through virtual meeting tools to generate custom visualizations tailored to specific user needs.
- Used *C Programming Language* to develop the tool. The link to the code can be found [here](#).

## A DIGITAL CLOCK

2021 September- 2021 October

- Created a program that prints the current time and date on a linux terminal in the format and font of a digital clock using *C Programming Language*.
- Link for code and documentation can be found here [[implementation](#)].

# EXPERIENCE

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## INSTRUCTING

2022 September- 2023 January

Worked as a casual instructor to assist 2nd year computer engineering undergraduates at the University of Peradeniya in labs

- Helped with the subjects digital design and computer communication networks.
- Prepared and delivered laboratory classes 4 hours a week.

## DEPARTMENT PROJECT- SMART INVENTORY MANAGEMENT WEB SYSTEM 2022

University of Peradeniya

- Database administration and website design using the Laravel framework.
- Developed a platform to assist the creating and managing of resources and reservations and to allow maintaining resources by sending scheduled reminders.
- Link to the documentation can be found [here](#)

## VOLUNTEERING

2021 August- 2022 April

Project Nenathambara- University of Peradeniya

- Created and wrote content for a Python course for beginners.
- Taught all basic concepts of python to a group of 150+ school students.
- Project details can be found [here](#)

## WORK EXPERIENCE- UNILEVER

2019 September- 2020 September

Unilever SPARKS Student Ambassador

- Worked as a Student Ambassador for Unilever, Sri Lanka at the University of Peradeniya.
- Organized the projects "Entrance to the Corporate World", "Competing and Surviving in the Corporate World" and "Career Guidance for Science, Management and Arts Undergraduates".
- Each project had a reach of over 200 undergraduates from around Sri Lanka.

## EXTRA ACTIVITIES

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### INTERNATIONAL

**International Sports Affairs Training Course**

2021

Participated in a "Sports Promotion" conference held in Taiwan.

**Sports Youth Affairs- Youth Olympic Camp**

2019

Represented Sri Lanka at the Youth Olympic Camp held in Beijing, China.

### SPORTS

**Swimming**

2006- Present

Vice captain of the University of Peradeniya swimming team

Won Zonal, University and School colours for swimming

### LEADERSHIP

**Clubs and Societies- University**

2020- Present

Captain- English Debating Team (Faculty of Engineering)

Secretary- International Interactions Club

Representative- Ceylon University Dramatic Society

**Girl Guiding**

2013- 2017

President's Guide

Translated the Sri Lanka Girl Guiding Hand Book from Sinhala to English

**School**

School Prefect

2016

Games Captain Primary School

2009

## REFEREES

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**Dr. Asitha Bandaranayake** | [asithab@eng.pdn.ac.lk](mailto:asithab@eng.pdn.ac.lk)

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