



# THAMISH WANDURAGALA

Department of Computer Engineering, Faculty of Engineering,  
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## ABOUT ME

I'm a motivated 3rd year computer engineering undergraduate, interested in all aspects of product development involving software, hardware and machine learning. Presently, I am actively pursuing internship opportunities which utilizes innovative problem-solving approaches where I would be able to make meaningful contributions.

## EDUCATION

### University of Peradeniya (2019 November - Present)

- Bachelor of Science in Computer Engineering  
(Current GPA - 3.89/4.0)

### Trinity College, Kandy (2004 - 2018)

- G.C.E. Advanced Level(2018) 2As, 1B- Physical Science Stream (within the top 3% of the country)
- G.C.E. Ordinary Level(2015) 8As, 1B (English Literature)

## EXPERIENCE

### Teaching Assistant (2022 October - 2023 January)

- Supervised weekly sessions for 2nd year undergraduates of Department of Computer Engineering, University of Peradeniya for course modules,
  - Programming Methodology (Based on C Programming Language)
  - Digital Design (Based on circuit building)

### Voluntary (2020 May - Present)

- Project Nenathambara

Contributed to making a new syllabus for Python programming language beginners and delivered the content to students in sessions organized in their schools in Sri Lanka.

## PROJECTS

### Cyber-Physical Project (Group) | Python, Flutter, Firebase, Nodejs 2022 October - 2023 January

- A hardware device based on raspberry pi 3 as the microprocessor which is able to detect road rule breaking severity.
- Included an app with which the users of the device were able to visualize collected data from the controller via a database hosted in cloud.
- Contributed to the front end, hardware and video processing sections.

## ACHIEVEMENTS

### Aces Hackathon 2023 (Group) June 2023

- Runners up (Other category) - Two day competition with 42 participating teams. Introduced an IoT solution targeting safety on the road.

### Aces Pre-Coders 2022 (Group) August 2021

- Finalists - A 6 hour coding competition with 70 participating teams.

## SKILLS

**Programming Languages:** Python, Java, C, C#, Dart

**Hardware Programming:** Verilog, ARM Assembly

**Mobile Development:** Flutter, Native Android

**Front End:** HTML/CSS, Bootstrap

**Back End:** Spring Boot, Nodejs

**Data Modeling:** Pytorch, Numpy, Pandas, scipy, sklearn

**Databases:** MySQL, FireBase

**Version Controlling:** Git

### **Student Results Management System** (Group) | Java, Android Studio

2021 November - 2022 March

- An application developed for undergraduates to keep track of their academic performance, progress.
- Contributed to the back end of the system.

### **Smart Inventory Management System** (Group) | Laravel with php, blade, MYSQL

2022 May - August

- Introduced a resource scheduling system to manage resources in the MakerSpace Lab (Department of Computer Engineering, University of Peradeniya).

### **8-bit Single Cycle Processor** (Group) | Verilog

2021 November - 2022 March

- An 8- bit single cycle processor with an ALU, register file, control logic, data memory, data cache, instruction memory and instruction cache. A memory hierarchy too was built.

### **Database System at University Gymnasium** (Group) | MySQL, Php

2021 November - 2022 March

- A fully functional database to organize reservations, cancellations, borrowings and misplacements of equipment at a gym.

### **Meeting Data Visualizer** (Individual) | C

2021 September

- Analyze data files such as meeting data information and visually represent the data as per the requirement of user using C programming language.

### **Digital Clock** (Individual) | C

2021 August

- A digital clock that prints the current time, and date on the linux terminal and give output according to the input parameters provided by the user.

### **Inventory Management System for several companies** (Individual) | C#, Java

2020 June - 2020 August

- Introduced a complete Inventory Management System for business entities "Anura Waters, Kurunegala" and "Dr.Bikes, Digana" through project opportunities at ESOFT, Kandy.

## **LEADERSHIP / EXTRACURRICULAR**

### **Offices Held**

- President, Ceylon University Dramatic Society, University of Peradeniya. (2022-2023)
- Secretary, Aviation Society, Trinity College, Kandy. (2017-2018)

### **Sports**

- Baseball U19, U17, U15, U13 - Trintiy College, Kandy. (2011 - 2017)

## **RELEVANT COURSEWORK**

- |                                    |                                   |
|------------------------------------|-----------------------------------|
| • Data Structures and Algorithms   | • Computer Communication Networks |
| • Data Mining and Machine Learning | • Embedded Systems                |
| • Computer Architecture            | • Software Engineering            |
| • Electronics                      | • Linear Algebra                  |

## **REFREES**

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

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