

# DINURA DISSANAYAKE

Department of Computer Engineering, University of Peradeniya, Sri Lanka

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I'm a 3rd year computer engineering undergraduate with a keen interest in machine learning, computer vision and embedded systems.

## Education

### University of Peradeniya

December 2018 – May Present

BSc Engineering (Hons) — Faculty of Engineering

GPA - 3.79 / 4.0

### D.S. Senanayake College

December 2009 – August 2017

G.C.E. Advance Level Examination

Comb. Maths (A), Physics (B), Chemistry (B)

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture

## Projects

### Analysis Tool for Industrial Images | Group Project

January 2022 - Present

- An analysis tool for increasing the performance of an injection mold maintenance device which uses image processing techniques to identify stuck plastic particles on molds.
- Technologies - React JS, Node JS, Express, Python
- [Project Page Link](#)

### Remote Keyboard Tutoring System | Group Project

July 2021 - Dec 2021

- A web-based system interactively learn, play or teach in combination with the aid of a hardware unit and a web application.
- Technologies - React JS, Node JS, Express, Flutter, Embedded Systems
- [Project Page Link](#)

### Visitors Management System | Group Project

November 2020

- A web based system to manage visitors to any institution.
- Technologies - SQL, HTML, CSS, JavaScript
- [Project Repository Link](#)

### 8-bit single cycle processor | Group Project

2020

- An 8-bit single cycle CPU with associated memory hierarchy. The processor includes an ALU, register file, control logic, forwarding unit, data memory, data cache, instruction memory and instruction cache.
- Technologies - Verilog-HDL
- [Project Repository Link](#)

### Compiler for Cool Language | Group Project

2022

- The combination of a lexer, parser, semantic analyser, and code generator that can be used to compile programs written in Cool programming language.
- Technologies - C++
- [Project Repository Link](#)

## Technical Skills

**Languages:** Python, Java, C, HTML/CSS, JavaScript, SQL, C++, ARM Assembly, Verilog-HDL

**Frameworks:** React JS, Express, Node JS, Flutter, Jekyll

**Graphic Designing:** Photoshop, Illustrator, Blender, Premier Pro

## Experience

### Teaching Assistance - CO 222 - Programming Methodology

May 2020 - September 2020

- Supervised weekly 2hr long online lab sessions
- Created questions for online quizzes based on the C programming Language

### Teaching Assistance - CO 226 - Database Systems

November 2021 - January 2022

- Supervised weekly 2hr long online lab sessions

### Computer Engineering Department Web Development Volunteer

November 2022 - Present

## Achievements

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### Mini Hackathon - ICDS

2021

- Data Science Hackathon organized by University of Colombo
- 5<sup>th</sup> Place(Out of 100+ teams)

### ACES Coders

2020

- Overnight inter-university coding competition organized by University of Peradeniya
- 14<sup>th</sup> Place(Out of 100+ teams)

### Sri Lankan Physics Olympiad organized by the Institute of Physics, Sri Lanka

2017

- Bronze Medalist

## Leadership / Extracurricular

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### AIESEC in University of Peradeniya

**Dec 2019 – February 2022**

*Marketing Manager - Incoming Global Volunteer*

*September 2021 - February 2022*

*Business to Business Manager - Incoming Global Volunteer*

*March 2021 - August 2021*

*Business to Business Team Leader - Incoming Global Volunteer*

*September 2020 - February 2021*

*Value Delivery Team Leader - Incoming Global Volunteer*

*March 2021 - August 2021*

### AIESEC in Sri Lanka

**Dec 2019 – Present**

*Incoming Global Volunteer Task Force Member*

*September 2020 - December 2021*

*Media Specialist(Radio) - Public Relations Team - Youth4Youth*

*February 2022 - Present*

## Recommendation

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### Prof. Roshan G. Ragel

Head of Department,  
Department of Computer Engineering,  
Faculty of Engineering,  
University of Peradeniya, Sri Lanka

### Dr. Isuru Nawinne

Senior Lecturer,  
Department of Computer Engineering,  
Faculty of Engineering,  
University of Peradeniya, Sri Lanka