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

Casual Instructor - 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

Casual Instructor - 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

Mini Hackathon - ICDS   2021
- Data Science Hackathon organized by University of Colombo
- 5$^{\text{th}}$ Place(Out of 100+ teams)

ACES Coders   2020
- Overnight inter-university coding competition organized by University of Peradeniya
- 14$^{\text{th}}$ Place(Out of 100+ teams)

Sri Lankan Physics Olympiad organized by the Institute of Physics   2017
- Bronze Medalist

Leadership / Extracurricular

AIESEC in Uinversity 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