DINURA DISSANAYAKE

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 github.com/dinuransika

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 - 3.77 / 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

Image Processing techniques to detect damaged fruit | *Group Project*   **2019**
- Image Filtering with OpenCV was used to create an algorithm to detect the deformities of fruit. Created application using python to continuously monitor given set of images.
- Technologies - Python, OpenCV, Kanny, Sobel
- 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

Mini Hackathon - ICDS 2021
- Data Science Hackathon organized by University of Colombo
- 5th Place(Out of 100+ teams)

ACES Coders 2020
- Overnight inter-university coding competition organized by University of Peradeniya
- 14th Place(Out of 100+ teams)

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

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