

Isuri Devindi

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I'm a 3rd year computer engineering undergraduate with a keen interest in machine learning and computer vision. Following my motto "greatness can be achieved if you have the will-power and dedication", I always strive to explore out of my comfort zone, learn new things, and apply my skills to find creative approaches to solve complex problems.

EDUCATION

University of Peradeniya <i>Undergraduate in Computer Engineering (BSc. Engineering(Hons.))</i>	2018 Nov - Present GPA: 4.00/4.00
Hillwood College, Kandy <i>G.C.E. Advanced Level Examination</i> <i>District Rank - 6, National Rank - 113</i>	2004 - 2017 Z-Score: 2.2768

ACHIEVEMENTS

IEEEExtreme 14.0 24 hour global algorithmic programming competition <i>Country Rank - 68, Global Rank - 724</i>	2020
Hacktitude An inter-university hackathon organized by the company 99x <i>Rank - 32 (Out of 200+ teams)</i>	2022
Hackfest An inter-university hackathon organized by the University of Peradeniya <i>Rank (Healthcare category) - 1 (Out of top 20 teams)</i>	2022
Hackdown An inter-university coding competition organized by IEEE WIE Student branch of University of Moratuwa, Sri Lanka <i>Rank - 37 (Out of 100+ teams)</i>	2019
CIMA Certificate level completion	2018
Fit-in-Deutsch 2 <i>Passed with 73 marks (out of 80)</i>	2014

PROJECTS

Oral Cavity Region Detection System <i>TensorFlow, Keras, React.js, Express.js, mongoDB</i> A web-based application that can be used to upload images of an oral cavity and segment the known normal regions using a machine learning model. Contribution : Developing a machine learning solution to segment the normal regions of an oral cavity	2022 - Present
Compiler for Cool Language <i>C++</i> The combination of a lexer, parser, semantic analyser, and code generator that can be used to compile programs written in Cool programming language	2022
Reconstructing highly degraded license plates <i>Python, OpenCV</i> Demonstrated how traditional image processing techniques such as Otsu thresholding, morphological transformation, contouring, spatial and frequency domain filtering, and degradation modeling can be used to restore highly distorted images along with the limitations of the traditional image processing theoretical techniques.	2022
Remote Proctoring system <i>React.js, Express.js, mongoDB</i> A single device which integrates the hardware and software components needed to conduct virtual proctoring of an examination in a university. Contribution : Designing the highlevel system overview, Developing the web application	2021 - Present
Database system for business to business trade <i>MySQL, Django</i> A fully functional database to organize transactions between businesses with a user-friendly interface. Contribution : Developing the database	2020

Tool to generate and display fractals | *Java*

2020

A simple tool to display two fractal set: Mandelbrot and Julia sets, according to user preferences.

8-bit single cycle processor | *Verilog-HDL*

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.

EXPERIENCE

Technical article writer

2021 Feb - Present

Enlear Private Limited and SyncFusion

Casual Instructor: CO222: Programming Methodology

2021 May- 2021 Sep

Department of Computer Engineering, University of Peradeniya

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

Casual Instructor: CO253: Introduction to Programming and Networking

2021 Nov- 2022 Jan

Department of Computer Engineering, University of Peradeniya

- Supervised weekly 2hr long online lab sessions based on C programming Language

TECHNICAL SKILLS

Languages: C, Python, Java, JavaScript, SQL, Verilog HDL, ARM Assembly Language

Frameworks: React.js, Express.js

Developer Tools: Git, Google Cloud Platform, VS Code

Libraries: NumPy, Matplotlib, OpenCV pandas, TensorFlow, Keras,

SOFT SKILLS

Technical writing | **Public Speaking** | **Critical Thinking**

EXTRA-CURRICULAR ACTIVITIES & LEADERSHIPS HELD

Member of the Web Consultation team of University of Peradeniya

2020 - Present

Secretary in IET on Campus of the University of Peradeniya

2022 - Present

President of the Music Society of the University of Peradeniya

2021 - 2022

Member of the Rotaract club of the University of Peradeniya

2020 - Present

Member of the Dramatic Society of the University of Peradeniya

2029 - Present

REFERENCES

Available upon request