Anushka Chandrasena

Computer Science (Hons) Undergraduate

+94766583510

66/4, Kadugannawa road, Gampola, Kandy

GitHub

anushkareshani352@gmail.com

LinkedIn

Portfolio

PROFILE

I am an enthusiastic undergraduate student passionate about Software Development. I enjoy exploring the latest trends and understanding the underlying technologies. I am comfortable working both independently and as part of a team, and I believe I have strong leadership skills. My dedication to my interests drives me to maintain continuous commitment to my tasks. I am eager to expand my knowledge and contribute positively to society. As I continue my studies and projects, I strive to use my skills and learning to innovate and make a difference.

Education

University of Peradeniya	**2020 Jan - Present**
B.Sc. (Hons) Computer Science	**Current GPA 3.84/4.00**

Coursework: Object Oriented Programming, Data Structures, Database Management Systems, Computer Architecture, Computer Device Interfacing, Operating System Concepts, Communication Networks, Computer Graphics, Object Oriented Analysis and Design, Server-Side Web Programming, Software Engineering, Digital Image Processing, Design and analysis of Algorithms, Artificial Intelligence and Expert Systems, Foundations of Distributed Computing, Software Project Management

Girls' High School – Kandy

G.C.E Advanced Level Examination 2018 - Physical Science Stream
Combined Mathematics(A), Chemistry(B), Physics(C)

G.C.E Ordinary Level Examination 2015 (9A's)

PROJECTS

Research Project - CCTV Video Analytics with Generative AI   **Present**

Developing a generative AI system to generate missing scenes and suspicious faces in CCTV footage. The project also focuses on preserving privacy by concealing the identities of unrelated individuals and enhancing footage quality by converting night scenes to day quality.
Technologies: Python, Generative AI

SHOP2DOOR – Interconnected Grocery Shopping System   **2023**

Developed an innovative platform for grocery shopping in Sri Lanka, addressing limitations in existing systems. SHOP2DOOR allows shop owners to sell directly to customers, offering a wider range of products. It features a single delivery fee for multi-shop orders, faster service through a large network of independent delivery riders, and supports farmers and small business owners. Additionally, SHOP2DOOR includes job posting capabilities, contributing to employment opportunities.
Technologies: SpringBoot, React, MySQL

GitHub Link

Computer Graphics - Virtual Flight Simulation   2023

Developed a virtual flight simulation to familiarize passengers with airplane interiors. Enthusiasts can experience a complete tour of the aircraft, exploring various sections and features, providing an interactive experience.

Technologies: C++, OpenGL

[GitHub Link](#)

Image Processing - Image Restoration and Enhancement Tool   2023

Developed an intuitive application for restoring and enhancing aged and damaged images. This user-friendly tool leverages advanced image processing techniques to allow users of all technical backgrounds to easily revive their photos, transforming them into vibrant and visually appealing masterpieces.

Technologies: Python, OpenCV

Lab Safety Automation System   2022

Designed and implemented an automation system to enhance lab safety through real-time monitoring and alerts. This innovative system utilizes IoT devices, including Arduino and Raspberry Pi, equipped with sensors for flame, gas/smoke, and temperature detection, as well as face recognition capabilities. The system provides immediate alerts to ensure a safe working environment.

Technologies: Python, IoT Devices (Arduino, Raspberry Pi)

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, C, C++, HTML, CSS

Tools & Technologies: GitHub, Spring Boot, ReactJS, OpenCV, OpenGL, Visual Studio, Visual Studio Code, MySQL, Eclipse, Google Colab, RStudio, Figma, ArcGIS (ArcMap)

HONORS and AWARDS

Dean's List, Faculty of Science, University of Peradeniya, Semester I 2019/2020
Dean's List, Faculty of Science, University of Peradeniya, Semester II 2019/2020
Dean's List, Faculty of Science, University of Peradeniya, Semester II 2020/2021

EXTRA CURRICULAR ACTIVITIES

Faculty Representative - Dramatic Society, University of Peradeniya   2021/22

Member - Music Society, University of Peradeniya   Present

Volunteered in a research project conducted by Civil Engineering students at the University of Peradeniya, focusing on mode choice parameter estimation for airport access by air passengers.   2023

Vice Secretary - Media Unit, Girls' High School, Kandy   2016/17

REFERENCES

Dr. Ruwan D. Nawarathna	Dr. Ruwanthini Siyambalapitiya
Senior Lecturer	Senior Lecturer
Department of Statistics & Computer Science	Department of Statistics & Computer Science
Faculty of Science	Faculty of Science
University of Peradeniya	University of Peradeniya
ruwand@sci.pdn.ac.lk	ruwanthini@sci.pdn.ac.lk