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Computer Science & Engineering Undergraduate

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Profile

I am a Final Year undergraduate with good skills, attitude, and passion for learning and willing to put the maximum effort into whatever I do. Have an interest in designing and developing mobile & web solutions. Love to do robotics & IoT projects in leisure time. Seeking for a career opportunity in the field of Software Engineering.

Education

University of Moratuwa
SEPTEMBER 2017 – PRESENT
4th Year Undergraduate, B.Sc. (Computer Science & Engineering)

3.77 CGPA (6 semesters)
Dean's List – Semesters 1, 4, 5, 6

Sri Sumangala College, Panadura
2008 - 2016
GCE A/L (2016) Physical Sciences stream - 2A's (Mathematics, Physics), 1B (Chemistry) — 1.9898 Z-Score
GCE O/L (2013) - 8A's, 1B (English Literature)

ESOFT Metro Campus
Diploma in IT (1 year) & Python Programming Course (2016)

Work Experience

WSO2 – Internship at Open Banking Team (6 Months) — OCTOBER 2020 – MARCH 2021

My internship project was to develop a mock banking mobile application to authenticate users, grant their consent using biometric authentication, and push notifications with CIBA (Client Initiated Back Channel Authentication) protocol. In addition, I developed a new custom local authenticator for WSO2-IS to send push notifications to the user's registered mobile device.

HexcodeLabs – Head of Software Development — SEPTEMBER 2020 – DECEMBER 2021

HexcodeLabs (hexcodelabs.lk) is a tech startup focused on developing solutions for client needs such as mobile and web apps, machine learning and IoT projects etc. Glad to be the Head of the Software Development team where I planned and managed software projects with both developers and clients. I have successfully managed and completed 4+ projects providing architectural guidance and leadership (Ex: Perks, Beecon, FitnessApp, TimeBuddy etc.).

Courses & Certificates

RESTful API with HTTP and JavaScript	Coursera | Guided Project	JULY 2020
Front-End Frameworks: Bootstrap4	Coursera | Hong Kong University	JULY 2020
Introduction to Self-Driving Cars	Coursera | University of Toronto	JUNE 2020
Google Cloud Platform core Infrastructure	Coursera | Google Cloud	MAY 2020
Python Data Visualization	Coursera | Rice University	MAY 2020
Networking Essentials	Cisco	MARCH 2020
Introduction to packet tracer	Cisco	OCT 2019

Technical Skills

Programing Languages	Python, Java, Dart, JavaScript, C++
Web Development	HTML, CSS, Bootstrap, Angular, Django, Dash (python)
Mobile Development	Flutter
Databases	MySQL, PostgreSQL, Firebase
Robotics & IOT	Arduino, STM32, ESP32

Awards & Achievements

HackX Startup Challenge – Mobile App (2019) - University of Kelaniya — Winners

IESL Robo Games - Walking 4-legged Robot (2018) - IESL & University of Moratuwa — Winners

XO-Bot Robotic Competition (2019) – IESL & University of Jaffna — Runners Up

RealHack 2.0 Hackathon (2019) - University of Kelaniya — Runners Up

IESL Idea Challenge - Dengue Prevention App (2018) – IESL & University of Moratuwa — Runners Up

Stay Home Coding Challenge by (2020) - optimizesolutions.lk — Runners Up

Physics Olympiad, Sri Lanka (2016) – Institute of Physics Sri Lanka — Bronze Medal

Mathematics Olympiad (2012) – SLOM Foundation — Zonal 1st place

Mathematics Quiz Competition (2011) — Zonal 1st place

'Best Student of the Year' Awards (Both 2015 & 2016) - Sri Sumangala College, Panadura

Projects

Final Year Research Project — Python — ONGOING

Our Final Year Research Project is a group project of two students, which falls under the domain of HCI. The research area is to use Smartphone Sensing and Machine Learning for Human Eating Behavior Recognition. By the end of November 2021, we have two research papers submitted for review at ACM-Ubicomp.

Covid19 Bubble Detector App — Flutter | Firebase — ONGOING

This is a mobile application to replace the current QR code based or manual book writing process when entering into a shop in the current pandemic. Customers who are registered to this system can just enter the shop and their presence is marked wirelessly. If a Covid19 patient is identified, system finds necessary clusters and notify others accordingly.

MediLab – Medical Lab. Management system — Django | PostgreSQL | HTML | CSS — OCT – DEC 2020

This is a web-based system developed for a network of medical laboratories to manage branches, patients, lab-officers and lab reports replacing the old manual system. Patients can view their lab reports via the website.

EMonitor – Environment Monitoring System — Python | Flask | Arduino | ESP32 — SEPT – NOV 2020

This is an IoT project to monitor environmental parameters such as temperature, humidity, pressure, light-intensity etc. and send those data to a backend server real-time. Respected parties are notified in case of any hazard (like the temperature exceeding a threshold). A simple web-view was developed to show the details.

Cellyzer – Call Details Records Analyzing Library — Python | Dash | HTML — FEB - JUNE 2020

Cellyzer is a python library to analyze CDR (Call Details Records) data and visualize them using the Cellyzer GUI. It can handle call, message and cell (antenna) records. This is a Software Engineering group project developed in the 5th semester.

Neomerce – E Commerce Web App — NodeJS | PostgreSQL | HTML | CSS — NOV - DEC 2019

Single vendor e-commerce web application made for Semester 4 - Database Systems module. It allows customers to buy products and generates reports and statistics for the store-administration.

MediKit – Web & Mobile Applications — PHP | MySQL | Flutter — JAN - MAY 2019

MediKit is a healthcare services system developed to connect the doctors & the patients in a systematic way and let the patient get a digital prescription with a good understanding about the medicines he/she takes. Implemented as the semester 3 group project.

Micromouse Robot – Flood fill Algorithm — C++ | Arduino | STM32 — AUG 2019

A small Micromouse robot developed for the SLIIT Robofest competition. I developed the robot-controlling algorithm, which is to reach the goal through a maze via the smallest possible time. Optimized to run in the small memory in STM32.

Extra-Curricular Activities

Batch Representative - CSE17 batch (4th Year)

MoraSprit – Former Sports Photographer (2018 -2019)

Volunteering – Teaching O/L Maths in rural areas (2017)

Non-Related Referees

Prof. Indika Perera
(indika@cse.mrt.ac.lk)
Head of Department - Computer Science & Engineering,
Faculty of Engineering, University of Moratuwa