

**T. Anju Chamantha**

Computer Science & Engineering Undergraduate

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|  | [anjuchamantha.github.io/portfolio](https://anjuchamantha.github.io/portfolio/) | | |

**Profile**

I am a Computer Science & Engineering undergraduate with good skills, attitude, and passion for learning and willing to give my best into whatever I do. Have an interest in designing and developing mobile & web solutions and love to do robotics & IoT projects during my leisure time. Seeking a career opportunity in the field of Software Engineering.

# Education

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| **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 | |
| **ESOFT Metro Campus** Diploma in IT & Python Programming Course (2016) |  | |
| **Sri Sumangala College, Panadura**2008 - 2016GCE A/L (2016) Physical Sciences stream - 2A’s (Mathematics, Physics), 1B (Chemistry) GCE O/L (2013) - 8A’s, 1B (English Literature) | | 1.9898 Z-Score |

# Work Experience

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| **WSO2 – Software Engineering Intern at WSO2 Open Banking Team** | 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. Tech Stack : Flutter, Java, Spring | |
| **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. (Projects: Perks, Beecon, FitnessApp, TimeBuddy etc.) | |

## **Courses & Certificates**

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

**Skills & Interests**

**Technical Fields** Backend Development, Mobile Development, Web Development, IoT

**Programming Languages** Python, Java, JavaScript, Dart, C++

**Frameworks & Tools** Flutter, Django, Flask, Angular, Arduino

**Databases** MySQL, PostgreSQL, Firebase

# Projects

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| **Final Year Research Project** | Python | ML | Pandas | Numpy | APR 2021 - ONGOING |
| My 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. | | |
| **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 in Sri Lanka, to manage branches, patients, lab-officers and lab reports replacing the old manual system. Lab officers can generate and print medical reports directly through the system, while registered patients can also view their lab reports via the website. | | |
| **Perks – Appointment Scheduling System** | Flutter | Firebase | JAN 2021 – DEC 2021 |
| Perks is a project I managed when I was in HexcodeLabs which was developed to a Sri Lankan client company. It is a platform where customers can schedule appointments for different services published by different merchants. This project is currently in the initial marketing stage to Sri Lankan saloon owners. | | |
| **Cellyzer – Call Details Records Analyzing Library** | Python | Dash | Numpy | HTML | CSS | FEB - JUNE 2020 |
| Cellyzer is a python library to analyze CDR (Call Detail Records) data and visualize them using the Cellyzer GUI. It can handle call, message and cell (antenna) records. This library helps to get interesting information such as connections between users, population and traffic details etc. using call detail records. | | |
| **Covid19 Bubble Detector App** | Flutter | Firebase | OCT 2021 - 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. | | |
| **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 drive the robot to reach the goal through a maze with the smallest possible time. Optimized to run in the small memory in STM32. | | |
| **Neomerce – E Commerce Web App** | NodeJS | PostgreSQL | HTML | CSS | NOV - DEC 2019 |
| Single vendor e-commerce web application, which allows customers to buy products and generates statistic reports for the store-administration. | | |

# Awards & Achievements

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| **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 |  |

## **Extra-Curricular Activities**

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| **Batch Representative** - CSE17 batch (2020 - 2021) |
| **MoraSprit** – Former Sports Photographer (2018 -2019) |
| **Volunteering** –Teaching O/L Maths in rural areas (2017) |
| **Organizing Committee Member** – IESL RoboGames (2019) |
| **Event Organizing** – Decrypt (2019), CSE Night (2019) |

## **Non-Related Referees**

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| **Prof. Indika Perera**  (indika@cse.mrt.ac.lk) |
| Head of Department - Computer Science & Engineering,  Faculty of Engineering, University of Moratuwa |
| **Lalaji Sureshika**  (lalaji@wso2.com) |
| Software Architect,  WSO2 |