



# T. Anju Chamantha

Computer Science & Engineering Undergraduate

📍 11 A, Weragama Road, Wadduwa, Sri Lanka  
📞 +94 778396415  
✉ anjuchamantha.17@cse.mrt.ac.lk  
🌐 linkedin.com/in/anjuchamantha  
📄 github.com/anjuchamantha  
🔗 anjuchamantha.github.io/portfolio

## 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

4<sup>th</sup> 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 (hexodelabs.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 here (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

Programming 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 1 <sup>st</sup> place
Mathematics Quiz Competition (2011)	Zonal 1 <sup>st</sup> place
'Best Student of the Year' Awards (Both 2015 & 2016) - Sri Sumangala College, Panadura	

## Projects

<b>Final Year Research Project</b>	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.		
<b>Covid19 Bubble Detector App</b>	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.		
<b>MediLab – Medical Lab. Management system</b>	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.		
<b>EMonitor – Environment Monitoring System</b>	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.		
<b>Cellyzer – Call Details Records Analyzing Library</b>	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 5 <sup>th</sup> semester.		
<b>Neommerce – E Commerce Web App</b>	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.		
<b>MediKit – Web &amp; Mobile Applications</b>	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.		
<b>Micromouse Robot – Flood fill Algorithm</b>	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