

Anju Chamantha

Senior Software Engineer | B.Sc. (Hons) Engineering, University of Moratuwa

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Profile

I am a Computer Science & Engineer with good skills, good attitude, and passion for learning, 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. Running a home server as a hobby, with home automations to make my life easy.

Education

University of Moratuwa

23rd Aug 2017 – 31st July 2022

B.Sc. (Hons) in Computer Science Engineering

3.78 GPA (First class)

Dean's List – Semesters 1, 4, 5, 6, 7

ESOFT Metro Campus

Diploma in IT (3rd Oct 2016 - 10th Oct 2017)

Python Programming Course (6th Feb 2017 - 30th Sept 2017)

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)

Working Experience

Co-Founder & Director – Impact WorldEx (Pvt) Ltd.

MAY 2025 - PRESENT

Impact WorldEx is a trading startup focused on importing and exporting goods. Impact WorldEx is also registered in Dubai UAE, which is a hub for the trading businesses. Currently we are in the electronics domain, and working on expanding to other areas as well.

Senior Software Engineer – WSO2

FEB 2024 - PRESENT

After working as a SE for 1.5 years, I was promoted to SSE. As for now I have worked on both Open Banking and Healthcare teams. I involved mainly with UI/UX tasks, analytical solutions and algorithmic tasks in WSO2 Ballerina language, with both on-prem and cloud (Choreo, Devant) deployment capabilities.

Software Engineer – WSO2

MAY 2022 – FEB 2024

I joined WSO2 Engineering R&D team as a fresh graduate and worked mainly with the Open Banking team on the banking solution, security aspects, maintenance etc. I have also contributed to the WSO2 Identity Server and Asgardeo solutions on multiple features like JARM, DCR tenant wise configs during my time as a software engineer.

Software Engineering Intern – WSO2

OCT 2020 – MAR 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 Identity Server to send push notifications to the user's registered mobile device. (Tech Stack: Flutter, Java)

Former Head of Software Development - HexcodeLabs

MAR 2021 – DEC 2021

HexcodeLabs (Currently known as HashBaze) 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.)

Skills & Interests

Technical Fields	Full Stack Development (Web & Mobile), IoT, Robotics, Automation
Programming Languages	Ballerina, Java, Python, JavaScript, Dart, C++
Frameworks & Tools	Flutter, Django, Flask, Angular, Arduino, Proxmox
Databases	MySQL, PostgreSQL, Firebase

Courses & Certificates

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	MAR 2020
Introduction to packet tracer	Cisco	OCT 2019

Projects

Final Year Research Project Python | ML | Pandas | Numpy APR 2021 – APR 2022

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 ML for human eating behavior and mood recognition while eating. We have submitted two journal papers at Q1 journals: IEEE Access & ACM Transactions on Computing for Healthcare.

EMonitor – Environment Monitoring System Microcontroller | Flask | PostgreSQL OCT 2020 – NOV 2020

EMonitor is a microcontroller based device which gets environmental data via sensors and sends those data to a back-end database server using CAP(Common Alert Protocol). The device also features self fault recovery mechanisms and it also can send warning e-mails in case of any sensor data exceeding a given threshold value. The data & stats can be viewed from the device display as well as from the website. Medium Article: [EMonitor](#)

MediLab – Medical Lab Management system Django | PostgreSQL | HTML | CSS OCT 2020 – 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 MAR 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 2020 - 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

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 OCT 2019 - DEC 2019

Single vendor e-commerce web application, which allows customers to buy products and generates statistic reports for the store-administration.

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
Hacktitude Hackathon (2022) – 99x.io	Runners Up
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 (2020) - optimizesolutions.lk	Runners Up
Physics Olympiad, Sri Lanka (2016) – Institute of Physics Sri Lanka	Bronze Medal
SLIIT RoboFest (2019) - Speed Micromouse – SLIIT Institute	Participation
Mathematics Olympiad (2012) – SL Olympiad for Mathematics Foundation	Zonal 1 st place
Mathematics Quiz Competition (2011)	Zonal 1 st place
Best Student of the Year Awards (Both 2015 & 2016) - Sri Sumangala College, Panadura	

Research Publications – Q1 Classified Journals (Top 25% in the field)

[ACM Transactions on Computing for Healthcare] Inferring Mood-While-Eating with Smartphone Sensing and Community-Based Model Personalization JULY 2025

“In this article, we aimed to investigate the relationship between mood and eating with mobile sensing data ... Additionally, we emphasized the significance of automatically inferring the mood-while-eating, as it could provide valuable feedback and interventions for mobile food diary users ... we proposed a community-based personalization approach that allows for the training of partially personalized models even for target users with limited data.”

[IEEE Access] Sensing Eating Events in Context: A Smartphone-Only Approach JUNE 2022

“This paper proposes a framework that infers eating vs. non-eating events from passive smartphone sensing and evaluates it on a dataset of 58 college students ... These findings are of potential value for future mobile food diary apps that are context-aware by enabling scalable sensing-based eating studies using only smartphones”

Extra-Curricular Activities

Head of Committee - CSE Insight Hub Renovation (2023)
Batch Representative - CSE17 batch (2021 - 2022)
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

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

Mrs. Lalaji Sureshika
(lalaji@wso2.com)
Associate Director / Architect in Engineering,
WSO2