

# SAMUDRA SAMADHI UDUWAKA

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 samudraUduwaka |  Portfolio

## PERSONAL STATEMENT

An enthusiastic engineering undergraduate with a quick decision-making personality and strong leadership, I am driven by a commitment to excellence in every task. My proactive approach and passion for technology enable me to deliver impactful results in all my endeavors.

## WORK EXPERIENCE

### Visiting Instructor

Sept 2025 - Dec 2025

At the Department of Electronic and Telecommunication Engineering University of Moratuwa

Skills: Conducting Raspberry-pi and Omnet++ simulation workshops for batch 24

### Intern Software Engineer - WSO2 Sri Lanka (Full-time)

Dec 2024 - May 2025

Identity and Access Management - sub-team: Auth and Reg

Skills: React, Ballerina, Java, MySQL, h2 db

### Trainee Software Engineer - Crytec Labs (Part-time)

Jun 2024 - Dec 2024

Mobile application development, Web application development

Skills: Flutter, React JS

### Software Developer - ApexRow Solutions(Pvt Ltd)

Feb 2022 - March 2024

Co-founder and Developer

Web application development, Software Application Development

Skills: HTML, CSS, JS, PHP, Java, MySQL

## EDUCATION

### BSc (Hons) in Electronic and Telecommunication Engineering

May 2021 - Present

Final-year undergraduate at the Department of Electronic and Telecommunication Engineering of the University of Moratuwa, Sri Lanka - CGPA : 3.67 (Until Sem6)

### BSc (Hons) Software Engineering

Dec 2020 - Present

Final-year undergraduate at the Java Institute for Advanced Technology, Sri Lanka.

### GCE Advanced Level - Devi Balika Vidyalaya Colombo 08

Aug 2018 - Oct 2020

An achievement of 3A's in advanced level physical science stream. Z-Score - 2.2224

## PROJECTS

### Evaluation and Adaptation of Meshtastic Network for Disaster Management - FYP (Ongoing) [GitHub Org](#)

Individual Contribution : Implementing Voice Communication over Meshtastic using Android and IOS apps, Developing Analytics Dashboard for Network Monitoring, Conducting Related Research and Verifying with Simulations

Languages, and Frameworks: Kotlin, ReactTS, Node Package Manager, Python, Swift, Meshtastic Framework

Development Platforms: Android Studio, VScode, XCode, Meshtasticator Simulating env

### Custom Page Editor for Asgardeo and IS - Internship Main Project

[IS Docs Link](#)

Platforms and Frameworks: CodeMirror, VScode, Maven, Github, IntelliJ IDEA

- **Front-end Design for the Console**

[Github Link](#)

Introduce a custom page editor in the product Console for page customizations in end user facing portals

React TS, MUI, OxygenUI, CodeMirror

- **Back-end development for the Console and Runtime**

[Github Link](#)

Introducing the DAO Layer for page customizations in end user facing portals

Java, Maven

- **Portal Customization API**

[Swagger Link](#)

The OpenAPI spec designed for the REST API for the page customizations in end user facing portals

RESTful APIs, Swagger

### Ballerina Connector - Internship On-boarding Project

[Github Link](#)

Developed a Ballerina Connector for Hubspot Marketing Campaigns API Spec

Languages, Platforms and Frameworks: Ballerina, VScode, Gradle, Rancher for Docker, Github

### Basic Layout Composer with Drag and Drop feature in Canvas

[GitHub Link](#)

Languages: React TS, CraftJS

Platforms and Frameworks: VScode, React+Vite

### Transformer Maintenance Record Keeper Dashboard with Anomalies Detector Feature

[GitHub Link](#)

Languages and Skills: React TS, Python, Image Processing, Model training

Platforms and Frameworks: VScode, RoboFlow, React+Vite

### Mini Trading System - LSEG Flower Exchange Application

[GitHub Link](#)

Languages, Platforms and Frameworks: C++, Data handling, VScode

### Automatic MCQ Grader using Image processing

[GitHub Link](#)

Languages: Python, Image Processing Techniques

### SuccessInternational - School management Web Application

[GitHub Link](#)

Languages: PHP, HTML, JS, CSS, MySQL

Platforms and Frameworks: VScode, XAMPP, MySQL workbench, Bootstrap, Payhere Sandbox for payment gateway, Gmail Plugin in PHP

### eShop - eCommerce Web Application

[GitHub Link](#)

Languages: PHP, HTML, JS, CSS, MySQL

Platforms and Frameworks: VScode, XAMPP, MySQL workbench, Bootstrap, Payhere Sandbox for payment gateway

### NewTech - Web Application for Online Tech Store

[GitHub Link](#)

Languages: PHP, HTML, JS, CSS, MySQL

Platforms and Frameworks: VScode, XAMPP, MySQL workbench, Bootstrap

### Rajasi - Restaurant Web Application

[GitHub Link](#)

Languages: PHP, HTML, JS, CSS, MySQL

Platforms and Frameworks: VScode, XAMPP, MySQL workbench, Bootstrap, Semantic UI

### Adaptive Traffic Control System

[GitHub Link](#)

Languages: C++, Python

Platforms and Frameworks: Kaggle, ESP32 CAM module

## SKILLS

Programming languages	PHP, Javascript, Java, C++, Python, HTML 5, CSS, Kotlin, Ballerina, React TS
Database Management	SQL (relational database), PHP MyAdmin, h2 db for dev
Frameworks	ReactJS, CSS Frameworks – Bootstrap, Semantic UI, Tailwind, OxygenUI
Platforms	VScode, IntelliJ IDEA, Android Studio, Netbeans, Wokwi, Node-red, Solidworks, Matlab
Areas of Interest	Web Design and Development, Cloud Security, Mobile App development, AI and ML
Soft Skills	Problem Solving, Self-learning, Presentation, Adaptability, Announcing

## EXTRA CURRICULAR ACTIVITIES

<b>Secretary</b> Electronic Club of University of Moratuwa	<i>Aug 2025 - Present</i>
<b>Secretary</b> IEEE Signal Processing Society Student Branch University of Moratuwa	<i>Jan 2025 - Present</i>
<b>Executive Director of Team Coordination and Human Resource Management</b> Morawings - IESL Student Chapter UoM	<i>Oct 2025 - Present</i>
<b>Batch Representative</b> For Semester 2 and 3 at ENTC UoM	<i>May 2023 - Feb 2024</i>
<b>Inducted Member</b> Rotaract Club of University of Moratuwa	<i>May 2023 - Jun 2024</i>

## REFERENCES

<b>Dr. Ranga Rodrigo</b> B.Sc. Eng. Hons. (Moratuwa), M.E.Sc. (Western, Canada), Ph.D. (Western, Canada), SMIEEE Senior Lecturer, Dept. of Electronic and Telecommunication Engineering, University of Moratuwa, Sri Lanka. Phone: +94 11 264 0422 Email: <a href="mailto:ranga@uom.lk">ranga@uom.lk</a>	<b>Prof. (Mrs.) Dileeka Dias</b> B.Sc. Eng. Hons. (Moratuwa), M.S. (Calif.), Ph.D. (Calif), MIE(SL), C.Eng., MIEEE Professor, Dept. of Electronics and Telecommunication Engineering, University of Moratuwa, Sri Lanka. Phone: +94-11-2731191 Email: <a href="mailto:dileeka@uom.lk">dileeka@uom.lk</a>	<b>W.R. Thilina Gayathra Kumara Rajakaruna</b> Senior Lecturer, Java Institute for Advanced Technology, Sri Lanka. Phone: +94 77 150 4422 Email: <a href="mailto:thilina@javainstitute.edu.lk">thilina@javainstitute.edu.lk</a>
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