

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 : 3.70

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

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

REFERENCES

Dr. Ranga Rodrigo 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: ranga@uom.lk	Prof. (Mrs.) Dileeka Dias 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: dileeka@uom.lk	W.R. Thilina Gayathra Kumara Rajakaruna Senior Lecturer, Java Institute for Advanced Technology, Sri Lanka. Phone: +94 77 150 4422 Email: thilina@javainstitute.edu.lk
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