CHAGA KARIYAWASAM

Engineering Undergraduate | University of Moratuwa

CONTACT

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- chagakariyawasam
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EDUCATION

2020 - Present
University of Moratuwa

- BSc. Engineering (Hons) in Electrical Engineering
- Minor Degree in Entreprenuership
- Current GPA : 3.40
- Expecting to graduate in 2024

2008 - 2018
Richmond College

- GCE Advanced Level (2018) Physical Science Stream -   3A's, Z-Score - 2.001
- GCE Ordinary Level (2015) - 9A's

SOFT SKILLS

- Teamwork
- Quick Learner
- Leadership
- Time Management
- Flexibility
- Effective Communication
- Event Planning

PROFILE

A self-motivated, enthusiastic, and responsible engineering undergraduate from the University of Moratuwa with proven organizational skills. I am a friendly, dedicated, and adaptable team player with the ability to quickly learn new things through self-learning who is seeking an opportunity to contribute my knowledge and skills to the success of the organization while enhancing my abilities as a Software Engineer.

TRAINING EXPERIENCE

Institute of Java & Software Engineering (IJSE)   Sept 2023 - Present
Trainee Full Stack Developer

- Training in full stack development.
- Hands-on experience in core Java, OOP, exception, and error handling.
- Responsive web designing using HTML5, CSS, JavaScript and Bootstrap.
- Worked with JDBC, Hibernate ORM, and MySQL.
- Acquired an advanced understanding of Data Structures and Algorithms.
- Worked with GitHub for version control.
- Worked with MVC and Layered Software Architectures.

Sri Lanka Energies (Pvt) Ltd   March 2023 - June 2023
Electrical Engineering Intern

- Designed and implemented a dumbwaiter using PLC.
- Got hands-on experience in Solar PV design, which involved simulating pre-feasibility, examining panel arrangement, and grasping mounting techniques.
- Special training in operating a mini hydro power plant.

Ceylon Electricity Board   Jan 2023 - March 2023
Electrical Engineering Intern

- Experienced in power generation, trained in hydropower plants and thermal power plants.
- Enhanced knowledge of power transmission in transmission and O&M branches.

Lanka Electricity Company (Pvt) Ltd   Feb 2023 - Feb 2023
Electrical Engineering Intern

- Experienced in power distribution.

TECHNICAL SKILLS

Programming Languages

- Java
- JavaScript
- Python

Databases

- MySQL

Libraries & Frameworks

- React.js
- Hibernate
- jQuery

Web Development

- HTML5
- CSS
- Bootstrap

Software Tools

- GitHub
- MATLAB
- PowerBI
- Arduino IOT
- AutoCAD
- PVSyst
- PSSE

REFERENCES

Prof. Asanka S. Rodrigo
Professor in Electrical Engineering
Department of Electrical Engineering
University of Moratuwa-Sri Lanka
Tel: +94 77 7958976
Email: asankar@uom.lk

Mr. L.H Anjana Thrishakya
Senior Lecturer at Institute of Java &
Software Engineering (IJSE)
Associate Tech Lead
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PROJECTS

- **Application for Solar PV System Monitoring & Predictive Maintenance Using AI Techniques** 🔗   Aug 2023 - Present
  Final Year Research Project
  - Created a data set using a MATLAB Simulink simulation.
  - Analyzed real solar plant data using the PowerBI application.
  - Currently developing the front end of the web application that continuously fetches data using an API for solar PV monitoring and showcasing the results of the machine learning model.
  - Tech Stack - JavaScript, React, SQL

- **Personal Portfolio Website** 🔗
  - Developed a responsive personal website to showcase my portfolio and host it on GitHub.
  - Tech Stack - HTML5, CSS, JavaScript

- **Weather App** 🔗
  - Developed a weather monitoring app for a website.
  - This app fetches the current weather data from an API and displays the weather information according to the city that the user enters.
  - Tech Stack - HTML5, CSS, JavaScript

- **Smart Footsteps Power Generation System with RFID Based Mobile Charging**
  - Designed to generate a voltage and current using piezoelectric tile.
  - This system manages the energy through a battery for mobile charging with an RFID verification process controlled by an Arduino.

COURSES & CERTIFICATIONS

- **Programming Foundations: APIs and Web Services** 🔗
  LinkedIn

- **HackerRank Java (Basic)** 🔗

- **Full Stack Developer: Department of Computer Science & Engineering**
  University of Moratuwa 🔗

- **Introduction to the Internet of Things and Embedded Systems**
  Coursera 🔗

- **MATLAB Onramp** 🔗

EXTRA CURRICULAR ACTIVITIES

- Assistant Head of Marketing at Moraspirit (2022-2023)

- Company Coordinator - 'EESpire 2022' Official Career Fair of Electrical Engineering Department of the University of Moratuwa

- Department Facilitator (Electrical Competition Head) - EXMO 2023 The Flagship Technological Exhibition University of Moratuwa

- School Coordinator - 'Gammaddata IEEE Api - Phase 3' Robotics & IOT Workshop Organized by IEEE PES Student Branch

- Technical Committee Member - 'Gammaddata IEEE Api - Phase 3' Robotics & IOT Workshop

- Publicity Committee Member - 'Energizing Sri Lanka' Panel Discussion organized by Electrical Engineering Society.