Sachini Chamathka Ranaweera
Final Year Engineering Undergraduate

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☎ 0710998878 / 0764448715

🌐 https://github.com/ranaweera sc65

⚫⚫⚫ https://medium.com/@ranaw eerasc65

Self-motivated and seek to maintain a position that offers professional challenges utilizing interpersonal skills, time management and problem solving skills. Also willing to take an added responsibilities to meet team goals.

Skills

- C++
- C
- Python
- Java
- HTML
- CSS
- JavaScript
- MATLAB
- Packet Tracer
- Solidworks
- PCB Designing
- React
- Mongo DB
- MySQL
- Express.js
- Figma
- .NET Framework
- Git
- NodeJS

- Time Management
- Communication Skills
- Self Confidence
- Planning
- Leadership
- Teamworking
- Critical Thinking
- Problem solving
- Sports - Netball, Athletics

Experiences

- **Internship**
  - **Lightway IT (pvt) Ltd**
  - **As a Trainee Software Engineer**

Projects

- **GAN based text to image Synthesizer (Text2Pic) - Ongoing FYP**
- **SocialQ chatbot**
  - Project involved during the 1st Internship Training
  - Trainee Software Engineer for 3 months in Lightway IT (pvt) Ltd
  - OpenAI API | UX/UI designing | Net Core Web API | Logo designing | Gitlab
- **Solar power generation forecast system for a power plant - Ongoing**
  - Under the module EE7209 Machine Learning
  - Google CoLab | Kaggle Multiple Linear Regression & Random Forest Regression
- **Hotel Management System**
  - Under the module EE3302 Data Structures and Algorithms
  - I contributed in various kinds of data structures such as Tree, Stack, Queue, Linked List.
- **Sports club database project using MySQL**
  - Under the module EE4202 Database System
  - Making the database, making the tables and relationships were done by myself.
- **Electronic project**
  - Under the module EE4105 Electronics Project
  - Design a Common Emitter BJT Amplifier to the given specifications
  - I designed the proteus simulation of the circuit for fulfilling the given specifications.
- **Automatic Noise Level Monitor and a Controller of a TV**
  - Under the module EE5305 Sensors and Transducers
  - I specially focused on the Arduino code for decoding several protocols such as NEC, Sony and so on and also the implementation of the circuit.
- **Blackjack Game Project** 🔗
  - Private Client Project
  - Python | Tkinter | MySql
- **Full Stack Furniture shop project** 🔗
  - Front-end built with React and styled with CSS
  - Back-end built with Node.js ,and Express
  - Database using MongoDB
- **Online Reservation System for the Seminar room and two Computer Centers in our faculty** 🔗
  - Under the module EE5206 Software Project
  - UX/UI design and the front end development parts are done by myself
  - React | JavaScript | CSS
- **RFID Based Smart Door Lock Security System**
  - Under the module EE6304 Embedded System Design
  - Proteus | Microchip Studio

Memberships

2024.01 - Present   **IEEE IAS**
Secretary

2022.03 - 2023.03   **EIES**
(Electrical and Information Engineering Society
Faculty of Engineering, University of Ruhuna)
Committee member

2022.02 - 2023.06   **AIESEC**
OGTe CR Team member

2021.07 - Current   **IEEE**
Active Club Member

2021.07 - Current   **SEDS**
Active Club Member

2021.08 - Current   **LEO Club**
Active Club Member

2021.06 - Current   **GAVEL Club**
Active Club Member

References

- **Mr. Geeth Priyankara**

  Lecturer,
  Department of Electrical and
  Information Engineering,
  Faculty of Engineering,
  University of Ruhuna.
  +94769256513
  geeth@eie.ruh.ac.lk

- **Mr. Samansiri De Silva**

  Lecturer,
  Department of Electrical and
  Information Engineering ,
  Faculty of Engineering,
  University of Ruhuna.
  +94710100888
  saman@eie.ruh.ac.lk

Education

2020 - current	**Bachelor of Engineering**	
	Faculty of Engineering, University of Ruhuna	
	GPA : 3.3047	
2020 - 2023	**Certificate Course in Soft Skills Development**	
	Faculty of Engineering, University of Ruhuna	
2019 - 2020	**Diploma in Education : Information Technology**	
	ESOFT Metro Campus, Tangalle	
2019 - 2020	**Intermediate Spoken Course : English**	
	British Council, Matara	
2009 - 2018	**Secondary Education**	
	H/Ruhunu Vijayaba National Collage, Beliatta	
2004 - 2008	**Primary Education**	
	H/ Tangalle Modal Primary School, Tangalle	

Participations

- **IEEEXtreme 15.0 - Came to the top 100 teams.**
- **Eminence 1.0**   **- Successfully completed all the tasks.**

Publications

- **Diabetes Prediction using ML : Guide for Hands-on-Experience**
- **Exploring the Marvels of Generative AI !!!**
- **Unveiling the Future of Imagery : Journey with GAN-Based Text-to-Image Synthesis**
- **Introduction to Chatbots**

Certifications

- **Supervised Machine Learning: Regression and Classification**
- **Introduction to Generative AI**
- **Getting started with Kaggle**
- **Introduction to Image Generation**
- **Google Cloud Platform Fundamentals for AWS Professionals offered by Google Cloud**
- **AWS Machine Learning offered by Amazon Web Services**
- **Cloud Identity offered by Google Cloud**
- **Introduction to Cybersecurity offered by CISCO Networking Academy**
- **C++, C, Kotlin offered by Sololearn**
- **Introduction to IT & Cybersecurity training course provided by Cybrary**

Volunteering Projects

"Mehewara" -   **Active team member in the Program Team**
(A project of a webinar on "Freelancing" for fresh school leavers via zoom as a part of the Soft Skill Management course offered by the Career Guidance Unit, University of Ruhuna.)

"Xbotix" -   **Active team member in the Program team(University Category) and Active team member in the Secretary team**
(A robotics competition organized by Faculty of Engineering, University of Ruhuna.)

"AXIOM" -   **Program Team Lead**
(A workshop series on competitive programming with hands on experiences for the undergraduates in University of Ruhuna.)