



SHAMIL KHAN

Computer Engineering Undergraduate

CONTACT

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EDUCATION

Faculty of Engineering, University of Peradeniya

BSc (Hons.) in Computer Engineering
(2021 - Present)

- CGPA - 3.80/4.00

St Anne's College, Kurunegala

G.C.E Advanced Level

CERTIFICATIONS

Diploma in Software Engineering
| Wayamba University of Sri
Lanka, Faculty of Applied Science
| 2019-2022

[Programming for Everybody
\(Getting started with python\).](#)
[University of Michigan](#) | [Coursera](#) | 2020

[Python Data Structures](#) |
[University of Michigan](#) | [Cousera](#)
| 2020

PROFILE SUMMARY

As an aspiring 3rd year computer engineering student with a keen interest in mobile application development and databases, I am seeking an internship opportunity that will allow me to apply my technical skills and creativity to develop innovative software solutions while learning from experienced professionals in the field.

PROJECTS

Automated Poultry Farming | IoT project | Group | 2023 🌐

- An automated feeding system that can be controlled using a mobile application which mimics the role of real-life poultry farmer in feeding the chicks.
- Contribution: Frontend & Backend of Mobile Application, Arduino coding
- **Flutter and Dart, Firebase, Arduino**

Poultry Feed Efficiency Tracking System | Group | 2022 🌐

- Poultry Feed Efficiency Tracking System (2022 group)
- A software application that monitor poultry feed efficiency.
- Contribution: Mobile Application development
- **Flutter and Dart, Firebase**

Student Results Management System | Group | 2022 🌐

- A mobile application that analyze undergraduate students' grades.
- Contribution: Mobile Application Development
- **Java, Android Studio, Firebase**

Regional Based Human Surveillance System | Group | 2022

- A web application that helps to store and calculate fine details for offences detected through a surveillance system
- Contribution: Managing the MySQL database
- **HTML, PHP, CSS, MySQL**

Java desktop application to Calculate CarbonFootprint | 2023

- CF Tracking and Estimation System (CFTES) which enable all registered members to enter data and calculate individual and overall CF.
- **Java, JavaFX, MySQL, Netbeans**

ACHIEVEMENTS

ACES Coders 9.0

- 12 hours coding competition
| 100+ teams | Rank 22

Real Hack 4.0

- Inter University coding competition
| 100+ teams | Rank 22

ACES AI Hack Fest 2022

- A mobile application with Machine learning models to trace close contacts of an infected person
| health category | Rank 2

Brainstorm 2023

- Intra University healthcare Innovation competition Participated
| Development of Non-invasive cholesterol checker |
Rank - 23

EXTRA - CURRICULAR

Robarosiya Society

- Member | 2020 - Present

MESWA (Muslim Engineering Student Welfare Association)

- Member | 2020 - Present | Actively participated in organizing and holding successful events

PERA FAMIANNITES

- Member | 2019 - Present | Participated actively in events conducted by the society

ATHUGALPURA PERA ENGINEER'S SOCIETY

- RLC Member | 2022 - Present | Contributed as a legal learn member for composing the constitution.

LANGUAGES

English

Full Professional Proficiency

Sinhala

Full Professional Proficiency

Tamil

Native / Bilingual Proficiency

Smart Energy Meter | Ongoing

- The project aims to develop an IoT-based energy meter using the INA219 sensor and ESP32, capable of measuring various electrical parameters
- MQTT broker, SCADA, MySQL

ML for structural health monitoring | Ongoing

- Prediction of Drag Force Coefficient for Single- Column-Supported Billboard Structures using ML method

8 bit Single Cycle Processor | 2022

- Implement ALU, control unit , caches and instruction memory using Verilog (HDL). Design for the MIPS ISA.
- Verilog HDL

EXPERIENCE

Poultry Feed Efficiency Tracking System | Extension

(Ongoing research project collaborated with Agriculture Faculty)

- Developing and maintaining commercial mobile application
- Hybrid Application (Android and IOS)
- Flutter and Dart, Firebase

Smart Beehive Monitoring System | Ongoing | Volunteering

- Cutting edge research project including Hardware, Software and Machine learning (Collaborated with Agriculture, Computer and EEE departments)
- Contribution: Working on Web development

TECHNICAL SKILLS

- Programming Languages (C, Java, Python)
- Mobile App Development (Flutter&Dart, Android Studio, Java)
- Web Development (HTML, PHP, CSS, JavaScript)
- Databases (MySQL, Firebase)
- Hardware Programming (Verilog HDL, Arduino, ARM)
- Version Control (GitHub)
- Tools (VS code, Netbeans)
- Graphic Design (Adobe Photoshop, Adobe Illustrator)

REFERENCES

Prof. Roshan G. Ragel

Head of the Department,
Department of Computer Engineering,
Faculty of Engineering,
University of Peradeniya.

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Mrs. Nadeesha Adikari

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