

UPEKA DILUKSHA

Bsc (Hons.) Computer Engineering Undergraduate

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SUMMARY OF QUALIFICATIONS

- Experience in software development, machine learning, and electronic systems, with a keen interest in AI, Machine Learning, Data Science, and intuitive solution development.
- Strong team collaboration skills, contributing effectively to projects and achieving shared goals through technical expertise and teamwork.
- Passionate about teaching and public speaking, with experience addressing 30+ seminars for O/L and A/L students to share knowledge and inspire academic excellence.

EDUCATION

University of Ruhuna – Faculty of Engineering

BSc (Hons.) in Engineering

Computer Engineering Department

Mahinda College Galle

G.C.E. (A/L) Exam AAB - District Rank 126

2021 - Present

Expected Graduation, Feb 2026

Current G.P.A 3.20/4.0

2006 – 2019

Physical Science Stream

PROJECT EXPERIENCE

Electric Vehicle Charging Booking System

(Back-end Developer)

Full Stack Application

2024 – 2025

- Developed and optimized backend for a platform enabling real-time booking and management of EV charging stations, featuring scheduling, payment integration, and availability tracking.
- Technologies Used: Node.js, Express.js, MongoDB, React Native, Docker, Git, OAuth (Google), Expo.
- Tools & Practices: JIRA (Sprint Management), Confluence (Documentation)

Real-time Chat App - Live Talk | LiveTalk

2024 | Web Application

- A dynamic real-time messaging application designed to offer seamless communication with features like instant messaging, user authentication, and message history.
- Technologies Used: Node.js, Express.js, Socket.io, MongoDB, React, JWT, Docker, Git.

Mushroom Classification | Repo

2024 | Machine Learning Project

- Built machine learning models for mushroom classification, achieving 90.63% accuracy with a Decision Tree and 96.93% accuracy with a Random Forest.
- Focused on data preprocessing, handling categorical variables, and optimizing model performance through hyperparameter tuning.
- Technologies Used: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Google Colab.

Multi-Threaded Proxy Web Server | Repo

2025 Jan | Network Programming Project

- Developed a multi-threaded proxy server with HTTPS tunnelling, real-time traffic monitoring, and GUI using PyQt6.
- Technologies Used: Python, PyQt6, Socket Programming, Threading, SSL/TLS, TCP/IP.

Hostel Management System

2024 | Database Systems Project

- Developed a database system for managing hostel operations, including student allocation, fee management, and staff administration.
- Optimized database performance by applying indexing strategies and query tuning techniques.
- Implemented complex SQL queries, including joins, nested queries, and set operations, to facilitate efficient data retrieval.
- Technologies Used: MySQL, SQL, ER Diagrams, UML, Query Optimization, Indexing, Database Transactions.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript (ES6+), C, C++, Verilog
- **Web Development:** HTML, CSS, React.js, Node.js, Express.js, TailwindCSS.
- **Database Management:** MongoDB, MySQL.
- **Version Control:** Git, Github.
- **Project Management:** JIRA, Confluence.
- **Tools:** - Figma, Visual Studio, Inteliji Idea, VSCode, Eclipse, Postman, Jupyter.

LICENSES & CERTIFICATIONS

- Supervised Machine Learning Issued by DeepLearning.AI
- Data Analysis Using Python Issued by IBM
- Machine Learning with Python Issued by IBM
- Introduction to Programming Using Java Issued by Sololearn
- Introduction to SQL Issued by Sololearn
- SQL intermediate Issued by Sololearn
- UI/UX for beginners Issued by Great Learning

EXPERIENCE

Editorial Committee Lead <i>IEEE Student Branch University of Ruhuna</i>	2024Jan – 2024 Dec
Project Coordinator – “Ganitha Sawiya” <i>Sasnka Sansada Foundation</i>	2022 Jan – 2022 Dec
Logistics Team Lead – Eminence 3.0 <i>WIE, Affinity Group, IEEE Student Branch University of Ruhuna</i>	2023 Sep

REFERENCES

Dr. Iromi Ranaweera, Senior Lecturer, Dept. of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna iromi@eie.ruh.ac.lk.	Dr. Prabath Weerasinghe, Senior Lecturer, Dept. of Electrical and Information Engineering, Faculty of Engineering, University of Ruhuna weera@eie.ruh.ac.lk
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