MEHARA UDAWATTE

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SUMMARY

Motivated software engineer with strong leadership skills and experience in collaborative projects. Demonstrated ability to drive innovation and continuous learning in software development. Proven track record of delivering results in team environments.

PROFESSIONAL SKILLS

- **Technical Skills:** C++, C#, Java, Python, Dart, React, Docker
- **Tools and Platforms:** Git, Unity, Flutter, Figma, Jupyter Notebook, Canva, Firebase
- **Soft Skills:** Leadership, Teamwork, Adaptability, Problem Solving, Organizational Skills, Time Management

EDUCATION

BSc. (Hons.) in Software Engineering - Upper Second-Class Honors   2023 - *2025*
University of Central Lancashire
Thesis on "Mammogram Report Interpretation using Natural Language Approach for Enhancing Patient Understanding".

Professional Qualification of Java Application Development using JavaSE   11/*2023 – 12/2023*
University of Colombo

GCE Advance Level (2As, 1C)   *2022 (2023)*
Sirimavo Bandaranayake Vidyalaya

PROJECTS

- **Final Year Research Project - Mammogram Report Interpretation Web App (Flask & NLP)**
  - Created a web app using Flask and NLP to convert complex mammogram reports into simple, patient-friendly explanations, highlighting cancer risk and actionable insights.
- **MovieFlixer - A movie app using Flutter.**
  - Developed a cross-platform movie application using Flutter and Dart, integrating with TMDB for real-time data.
- **Unity Project - Created a communication AR application for blind and deaf people.**
  - Worked on an augmented reality application for enhancing communication for the blind and deaf, employing Unity and Agile methodologies.
- **Advanced Software Modelling and Simulation Project (Java)**
  - Developed a console-based, multithreaded Java simulation to model rush-hour traffic flow through a configurable road network with traffic-light–controlled intersections, custom thread-safe buffers, and real-time reporting
- **Data Modelling & Analysis Project**
  - Created a Python data science solution with real-world datasets for insights using preprocessing, ML models, and visualizations.
- **Distributed Systems Project**
  - Built and deployed a resilient, distributed question-and-answer microservice application using NodeJS, Docker, RabbitMQ, and Kong API Gateway on Azure.
- **Implementing Sorting Algorithms**
  - Implemented and analyzed Merge, Quick, and Selection Sort in Python using Big O for performance evaluation.
- **Burger ordering Application.**
  - Designed a console application in C++ for ordering burgers, showcasing efficient system design.
- **Healthcare App using MIT App inventor.**
  - Contributed to a team developing a healthcare app using MIT App Inventor, emphasizing user-centric design.

EXTRA-CURRICULAR ACTIVITIES

- Junior band leader in the year 2018
- Secretary of the UCL Student Council 2024-2025
- Secretary of the English Literary Association
- Vice treasurer of the school photographic and art society
- Treasurer of the schoolhouse
- Member of the school dancing group

REFERENCES AVAILABLE UPON REQUEST