




SAFWAN R. CHOWDHURY

 github.com/SafwanChowdhury  [linkedin.com/in/safwan-r-chowdhury](https://www.linkedin.com/in/safwan-r-chowdhury)  safwanchowdhury.co.uk

 safwan.chowdhury1@outlook.com  English & Bengali

EDUCATION

Imperial College London

Master of Computing (Software Engineering)

Sept 2023 - Sept 2024

University of Leeds

Bachelor of Computer Science w/ Artificial Intelligence

Sept 2020 - June 2023

First Class Hons (1st)

WORK EXPERIENCE

Freelance Software Engineer

ProjektRising

Aug 2024 - Present

- Collaborated directly with client to develop an end-to-end automation system using Puppeteer, Azure authentication, and GCP serverless functions for data extraction, preprocessing, and report generation.

PROJECTS

Gaussian Belief Propagation for Multi-Agent Platooning

Research, C++, Python, OpenCV, raylib, WebSockets, Git

Mar 2024 - Sept 2024

- Developed the GBPPlanner-Platooning system, integrating it with Euro Truck Simulator 2 to demonstrate real-world multi-agent platooning capabilities and enhance robot navigation through cohesive collaboration, redundancy, and decentralised infrastructure—applicable in supply chain logistics and robotics.

Machine Learning Acute Kidney Infection (AKI) Predictor

Python, Pandas, Scikit-learn, Docker, Kubernetes, Git

Feb 2024 - Mar 2024

- Developed a machine learning model to predict Acute Kidney Injury (AKI), showcasing expertise in healthcare data analytics and data preprocessing pipelines for high-quality input data.
- Deployed the model using Docker and Kubernetes, achieving an **F-Score of 1.00** and an average processing time of **0.869 ms** per message.

Portfolio Website

Tailwind, TypeScript, Next.js, React, Vercel, Node, Git

Jan 2024 - Jan 2024

- Created a personal portfolio website implementing responsive design for optimal viewing across devices.
- Optimised performance to reduce loading times by **54%** to **0.34 seconds** using modern web development practices.

VR Online Chess Website

JavaScript, React.js, Three.js, WebXR, AWS, Vercel, Git

Jan 2023 - June 2023

- Developed a full-stack VR online chess platform (3d-chess.co.uk) providing an engaging user interface.
- Optimised performance to achieve average game loading times of **1.49 seconds**; implemented server-side game logic in Python for real-time gameplay.

Airline API

SQLite3, Django, Python, REST API, Unit Testing

May 2023 - May 2023

- Implemented database integration and data population scripts to ensure seamless data handling and manipulation.
- Managed and versioned the project through GitHub, showcasing proficiency in version control and collaborative development practices

EXTRACURRICULAR

- **Leadership and Community Building:** Served as Head Prefect at Jack Hunt School and President of Leeds Asian Society, demonstrating strong leadership by organising inclusive events and fostering a supportive community.
- **Research and Communication Skills:** Presented research on EAL (English as an Additional Language) students to teachers at SSAT Events across the UK, showcasing excellent communication and presentation abilities.
- **Volunteer Work:** Organised and managed large-scale charity events for Children in Need, handling cross-functional tasks such as finance, event planning, and marketing, including negotiating venue costs and leading sub-teams.