

Faisal Mujawar

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EDUCATION

Royal Holloway, University of London

Expected: June 2026

B.Sc. in Computer Science

- Achieved First Class in first-year results.

PROJECTS

RISC-V Emulator: [GitHub Repository](#)

October 2024

- Developed a RISC-V emulator in **C++** from scratch, emulating the functionality of the RISC-V architecture's instruction set.
- Implemented support for integer instruction execution, memory management, and basic debugging features.
- Utilized modular design principles to allow for future extension and optimization.
- Gained a deeper understanding of computer architecture and low-level systems programming.

Headstarter: [Quant: Your AI Customer Support Assistant](#)

September 2024

- Utilised LangChain and basic RAG for providing customer support, built using **NextJS**, **Tailwind**, and **Firebase**.
- Built in collaboration with my teammate utilising **advanced Git** repo control+rules, assigned and marked completed tasks with **Trello**

Data Management System

August 2024

- Integrated MySQL with python(Tkinter), reducing data entry time by **70%** as compared to manually doing it via MySQL and making it more intuitive manipulate data.
- Allows the user to export the data as a **.csv** file.

Codedex Hackathon: [Data Bolt](#)

June 2024

- Developed a tool with **75% accuracy** in predicting Olympic trends using **pandas(data manipulation)**, **matplotlib (for graphing)**, and **scikit-learn (for AI prediction via linear regression)**. (This is before Russia was barred from entering, this accuracy is after accounting for this.)

Automated Game Testing and Levelling

May 2024

- Increased efficiency by using python through the use of **pyautoinput** and **threading** to automate levelling within the game and was used to limit-test game mechanics with inputs not possible by human players.

ImaginaryUni: University Management System ([GitHub Repository](#))

December 2024

- Designed and implemented a university management system using **Spring Boot** for the backend, ensuring scalability and adherence to best practices.
- Integrated features like student data management, course enrollment, and staff administration.
- Followed **Uncle Bob's Clean Code principles**, Google Java guidelines, and UML-based designs to ensure a maintainable and efficient codebase.

CERTIFICATIONS, SKILLS & INTERESTS

Certifications: IEUK 2024 Technology Internship, WebX Web Development Competition, WebX Coding Competition

Technical Skills: Python (Pandas, Matplotlib, scikit-learn), MySQL/Postgres, JavaScript/TypeScript, C, Java(Springboot, JUnit, Mockito)

Extracurricular Activities:

- Hackathons: Royal Hackaway v7, Codedex 2024, Headstarter Hackathon, etc.
- Lead volunteer at Saint John's Church community fridge
- Comp. soc key member: organized mini competitive programming sessions

EXPERIENCE

Headstarter Software Fellowship

July - September 2024

Software Fellow

- Collaborated in a program focused on solving real-world software challenges, improving teamwork and technical skills through tools like **Trello** and **GitHub**.
- Gained hands-on experience with **NextJS**, **MaterialUI**, and **Firebase**, contributing to the development of **6 projects**.

Maths Mentor, CeDAS

October 2024 - Present

Royal Holloway, University of London

- Assisted 1st-year Computer Science students with mathematics and machine fundamentals during weekly drop-in sessions, improving their understanding of key concepts.
- Developed tutoring skills by breaking down complex mathematical problems into manageable steps.
- Provided support to students from diverse academic backgrounds, helping them boost confidence and performance.