FRAN MOWAT

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EDUCATION

University of Westminster *(September 2023 -)*
BSc Computer Science
Roles and societies: AWS DeepRacer Team - pre-qualified for AWS AI & ML scholarship, Google Developer Student Club, Computer Science Course Representative

Putney High School *(September 2016 - July 2023)*
A-Levels: Computer Science, Mathematics, Physics
GCSEs: 10 A*s - Biology, Chemistry, Computer Science, English Language, English Literature, Geography, Mathematics, Physical Education, Physics, Spanish

Awarded Academic Scholarship for 6th Form, awarded Computer Science graduation prize
Roles and societies: Software Engineer in Robotics Club, delegate at GDST AI Techathon, Rowing Team, Netball Team

Putney High Junior School *(September 2009 - July 2016)*

NOTABLE ACTIVITIES

Generative AI with AWS Udacity Course *(February 2024)*
Encompassing a wide range of topics LLMs with transformer-based architectures and societal impacts of generative AI. Concluded with a project to fine-tune a foundation LLM utilising Amazon Sagemaker

Problem Solving International Hackathon 2024 *(February 2024)*
Competed against teams internationally to solve logic, mathematical, and problem solving challenges. Placed 7th out of over 100 participating teams and achieved the top score among all of the contenders from the UK

Codecademy Java Course *(December 2023)*

IBM Introduction to Cloud Computing Course *(September 2023)*
Learnt about topics including cloud deployment methods, cloud service models, cloud infrastructure, and CDNs

Costa Coffee Barista *(August 2023 - September 2023)*

The Odin Project Foundation Path *(August 2023)*
A comprehensive course covering front-end development and version control using Git

Codecademy Python 3 Course *(August 2023)*

Codecademy Interactive JavaScript Websites Course *(July 2023)*
Developed JavaScript skills such as leveraging DOM events to add interactivity and templating using the Handlebars library

Codecademy Learn JavaScript Course *(July 2023)*

Duke of Edinburgh Gold Award *(November 2021 - May 2023)*
Volunteered at a local library, completed a British Sign Language course, completed two expeditions in the Brecon Beacons

CyberFirst Advanced *(August 2022)*
NCSC-run cybersecurity residential course covering a broad range of information within lectures, practical labs, and a *Capture The Flag* challenge

InvestIN Young Computer Scientist Programme *(July 2022)*
Software engineering course, including opportunities to speak with a range of professionals across different fields such as data science and back-end engineering.

Google Digital Marketing Course *(June 2022)*

Digital Skills: Web Analytics Course with Accenture *(May 2022)*

UKMT Senior Maths Challenge Gold Award *(December 2021)*
Competed in the UKMT Senior Maths Challenge and achieved a Gold Award, leading to an invitation to participate in the 'Kangaroo Round'.

UK Bebras Challenge Gold Award *(December 2020)*
Competed in the UK Bebras Challenge, which tests participants' computational thinking skills, and achieved a score in the top 10% of the country within the senior age category. This led to an invitation to compete in the Oxford University Computing Challenge (OUCC).

InvestIN Young Computer Scientist Programme - Cybersecurity & AI *(November 2020)*

CyberFirst Defenders *(August 2020)*

Distinction in UK Bebras Challenge *(December 2019)*

Marks and Spencer Internship *(July 2019)*
Spent a day with the Marks and Spencer Data Insights and Analytics team where I attended meetings and assisted with a project looking to improve the ease of access for data about specific *Clothing and Home* products

Distinction in UK Bebras Challenge *(December 2018)*

Netball Umpire *(September 2015 - July 2018)*
Rocks Lane Sports Centre
Worked in a fast-paced environment umpiring netball matches; working with children to ensure both their safety and entertainment

PROJECTS *(where applicable, headings are hyperlinked)*

Typing Speed Test | HTML, CSS, JavaScript *(March 2024)*
Developed a tool to allow users to test their typing speed and accuracy

Personal Website | HTML, CSS, JavaScript *(January 2024)*
Built a responsive website in order to display my ongoing projects and experiences

Tic-Tac-Toe Game | HTML, CSS, JavaScript *(December 2023)*
Developed the classic game of tic-tac-toe, including the functionality for both a one-player and two-player version

Colour Picker Tool | HTML, CSS, JavaScript *(November 2023)*
Developed a tool which allows users to find the hex and RGB values of different colours selected on a colour spectrum

Calculator | HTML, CSS, JavaScript   *(August 2023)*
Designed a calculator which has the ability to perform basic mathematical operations upon entered values

Etch-a-Sketch | HTML, CSS, JavaScript   *(August 2023)*
Built a whiteboard-based tool which looks to emulate the functionality of the 1960s drawing device; the etch-a-sketch

Music Suggestion Tool | Python (Flask), HTML, CSS, JavaScript   *(May 2023)*
Development of a website which provides users with tools to aid them with the discovery of music. One uses a recommender engine developed using Python to interact with the Spotify API to generate a list of recommended tracks based on an inputted playlist.

A more comprehensive list of projects can be found at github.com/fran-mowat.

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Python, Java, SQL
Dev Tools: Git, Visual Studio, IDLE, Thonny, GitHub, Replit, NetBeans

Interests include: Cybersecurity, Machine Learning, Software Engineering, Robotics, Cloud Computing
Reference available upon request