DAVID HIGGINS

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Objective

Eager to gain experience in the professional domain of computer science.

Education

University of Edinburgh   **September 2021 – May 2025**
Bsc Computer Science (Penultimate Year)   *Grade Average of 85%*
Relevant Courses: Data Structures and Algorithms, Computer Systems, OOP, Software Engineering, Data Science, Reasoning and Agents, Introduction to Computation, Linear Algebra, Discrete Maths and Probability, Calculus

Sir John Deane's Sixth Form   **September 2019 – May 2021**

A*A*A* in Computer Science, Mathematics and Further Mathematics

Bridgewater High School   **September 2014 – May 2019**

Seven grade 9s, three grade 8s and an A* with distinction in Further Mathematics

Technical Skills

Languages: Java, Python, Javascript, HTML, CSS, Visual Basic, C, MIPS
Technologies: React, AWS, Git, Pandas, Matplotlib, Seaborn

Projects

Lanthanideas.com | *HTML, CSS, Javascript, React*   **July – Present**
- Working on the design, development and deployment of my Dad's consultancy company website
- Completed Meta certified courses on React and UI/UX in preparation

8 Ball Pool | *Java*   **February – June 2023**
- Fully functional 8 ball pool game written in Java with no game engine or external packages, providing me the opportunity to refine my Java skills in a larger project. A demonstration can be found here

Cloud Resume Challenge | *S3, CloudFront, Route 53, Certificate Manager, DynamoDB, Lambda*   **June 2023**
- Created and deployed an online CV backed by various cloud-based technologies: davidscloudresume.com
- Used S3 for hosting, CloudFront for content distribution, Route 53 for domain name registration, Certificate Manager to secure the site, DynamoDB for storing web page views and finally Lambda as the API between the frontend and backend
- Also introduced to some DevOps, namely CI/CD using Github actions with some pipeline configurations in YAML

Vibe Check | *Javascript*   **March 2023**
- Our category winning project at the HackTheBurgh IX hackathon was a live lecture reaction service
- Students, via a mobile website, are able to give live lecture reactions and ask questions which overlay the lecture presentation using a chrome extension
- My focus was creating analytical tools so lecturers can identify areas of confusion or confidence from the lecture

Hand-drawn Digit Classifier using Neural Network | *Java*   **May 2022**
- Following Tariq Rashid's "Make Your Own Neural Network", I built a neural network library in Java without the help of any packages. I then used the library to build a hand-drawn digit classifier. A demonstration can be found here

Codedbydavid.com | *HTML, CSS*   **May – September 2020**
- A personal portfolio I built to house all the programming projects, research and book reviews I completed before university. The site is live at codedbydavid.com

Experience

Data 8   **October 2019**
Junior Developer   *Chester*
- Alongside the company's technical director I built an address displacement calculator which utilized the company's API
- I was also afforded the opportunity to shadow client phone calls and discuss the industry with the dev team leader

Less Common Metals   **February 2020**
Junior Database Management   *Cheshire*
- Worked with the company's database manager and discovered how vital the database is to the many sectors of the company. Had the opportunity to learn some basics and build my own football player database

Certifications

Meta Certified: React Basics, Advanced React, Principles of UI/UX
FreeCodeCamp : Javascript Algorithms and Data Structures

Interests

Spent a decade playing football for my local team which included two years as captain in my final years. I have continued to play at university for the Informatics 11-a-side team and another 5-a-side team.