

# Matthew Heddwyn Davies

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## EDUCATION

### The University of Edinburgh

Edinburgh, UK

BSc (Hons) in Computer Science

September 2021 – May 2025

- Relevant Courses: Algorithms and Data Structures, Software Engineering, Data Science, Software Testing.
- Projected First-Class Honours (averaged and on track for a first).

### Pate's Grammar School

Cheltenham, UK

A-Levels in Computer Science (A\*), Economics (A\*) and Mathematics (A)

September 2019 – May 2021

- Computer Science Society Co-Founder.

## WORK EXPERIENCE

### DLF Seeds & Science

Didbrook, UK

Summer Intern

June 2021 – August 2021

- Organised a system of data collection for an entire year's harvest by cataloguing an inventory of hundreds of seed samples.
- Contributed to the software design of an autonomous drone to monitor crop quality.
- Played a key role in the conceptualization and planning phase, contributing insights on the technical requirements and objectives of the autonomous drone project.

### Ripjar

Cheltenham, UK

Work Experience

February 2020

- Utilized advanced company software to extract and visualise data from the Panama Papers database, employing sophisticated tools and technologies.
- Applied SQL and JavaScript for data manipulation and analysis, demonstrating proficiency in database management.
- Presented key findings to the firm, showcasing analytical skills and the ability to derive meaningful insights from extensive datasets.

## PROJECTS

### AUTONOMOUS DRONE DELIVERY / Java | GitHub [\[Link\]](#)

- Implemented a pathfinding algorithm in Java that integrates with a REST server to retrieve order information.
- Utilized Maven for project management and dependency handling to streamline development processes.
- Technologies Used: Java, Maven, Spring Framework, RESTful Api

### PORTFOLIO WEBSITE / HTML, JavaScript | GitHub [\[Link\]](#)

- Developed a portfolio website using ReactJS and Vite, showcasing proficiency in modern JavaScript frameworks and build tools.
- Employed JavaScript to enhance interactivity and user experience, demonstrating ability in front-end development.
- Technologies Used: HTML, Tailwind CSS, JavaScript, ReactJS, Git

### TRENDS IN MOVIES USING IMDb / Python | GitHub [\[Link\]](#)

- Utilized TensorFlow for machine learning algorithms to analyze and interpret IMDb movie trends, demonstrating proficiency in machine learning techniques.
- Leveraged Seaborn for data visualization to present insightful patterns and trends in IMDb movie data, showcasing adeptness in data visualization techniques for effective communication of findings.
- Technologies Used: Python, Pandas, Seaborn, TensorFlow

## ADDITIONAL EXPERIENCE

### HACK THE BURG

February 2024

- Competed as a team in Optiver's trading challenge and placed 3<sup>rd</sup>.
- Developed financial and trading knowledge by implementing an automated market maker in python that utilises semantic analysis of social media messages.

### SYSTEM DESIGN PROJECT

January 2024 - Present

- Developed adept project management skills to oversee the development lifecycle while demonstrating skills in creating a scalable architecture to meet requirements effectively.

### GCHQ | CYBERFIRST ADVANCED

August 2019

- Gained advanced skills in key areas of cyber security in digital forensics, encryption technologies, penetration testing and open-source intelligence techniques.

## ADDITIONAL SKILLS & INTERESTS

**Languages:** Java, JavaScript, HTML + CSS, Python, C | **Libraries:** ReactJS, Pandas, Seaborn + Matplotlib | **Front-end:** ReactJS, Node.js | **Databases:** Relational Database (MySQL) | **Areas of Interest:** Front-End Development, Cloud Engineering | **Soft Skills:** Problem-Solving, Self-learning, Conscientiousness, Adaptability, Teamwork