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](https://github.com/MattDavies-code/Autonomous-drone-delivery)]

* 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](https://github.com/MattDavies-code/Exploring-Movie-Trends-Using-IMDb)]

* 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 BURGH** *February 2024*

* Competed as a team in Optiver’s trading challenge and placed 3rd.
* 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