Matthew Heddwyn Davies

Buccleuch Terrace, Edinburgh, EH8 9ND | davies.heddwyn.matthew@gmail.com | 07500728344

EDUCATION

The University of Edinburgh   **Edinburgh, UK**
BSc (Hons) in Computer Science   *September 2021 – May 2025*
- Relevant Courses: Algorithms and Data Structures, Software Engineering, Networking, Operating Systems.
- 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*
- Co-founded Computer Science Society and created society website.

WORK EXPERIENCE

DLF Seeds & Science   **Didbrook, UK**
Student Assistant   *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 BURGH   *February 2024*
- 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*
- Part of a team designing a robot, presenting proposals and demonstrations to clients.
- Managed project timelines, resources, and budget effectively, ensuring timely completion within constraints.

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 + React Native, Pandas, Seaborn | **Front-end:** ReactJS, Node.js | **Databases:** Relational Database (MySQL) | **Areas of Interest:** Front-End Development, Network Engineering | **Soft Skills:** Problem-Solving, Self-learning, Conscientiousness, Adaptability, Teamwork