HARRY MCDONAGH

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⚙ github.com/harrymcdonagh | Portfolio: https://harrymcdonagh-portfolio.vercel.app/

SKILLS

- Java, Python, JavaScript, HTML, CSS, React, Next.js, Git, SQL, Express, Node.js, C, C++, VBA

WORK EXPERIENCE

Horizone Ltd: *IT Technician*   02/2022 – 09/2022

- Resolved IT and telecommunications-related service tickets for customers, working both individually and collaboratively within a team environment.
- Utilised VBA and a database to automate the invoice mailing process, significantly improving efficiency compared to the previously manual method.
- Administered Microsoft accounts for customers' employees, which included tasks such as managing file and user permissions, creating, and deactivating user accounts, and ensuring compliance with organizational policies.
- Acquired hands-on experience in implementing and troubleshooting network infrastructures within office environments.

PROJECTS

Cambodia Care: 06/2024

- Developed "Cambodia Care", an eco-tourism website with the goal of aiding people in Cambodia, based on the Engineers Without Borders 2024 challenge.
- Built the backend using Node.js and Express, implementing an MVC architecture, integrating a database with SQL, and using JavaScript to create login, register, and trip booking functionalities.
- Developed the front end with CSS, Express Layouts, and JavaScript, using Express-Session for secure session management and dynamic page rendering.

Voyage: 08/2024 – *Present*

- Developing Voyage, a web application focused on real time analysis of top cryptocurrencies using real-time prices and historical data.
- Building the backend with Next.js, allowing for efficient API request handling. Currently working on a login and registration system that enables users to track their portfolios and manage their watchlists.
- Developing the front end using React, Tailwind and shadcn/ui, to create a polished and professional UI.

EXTRACURRICULAR & CERTIFICATIONS

J.P. Morgan Software Engineering Virtual Experience on Forage   02/2024

- Set up a local development environment by downloading the necessary files, tools, and dependencies.
- Fixed broken files in the repository to make web application output correctly.
- Used JPMorgan Chase's open-source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor.

IEUK 2024: Technology: *Intern*   17/06/2024 – 20/06/2024

- Engaged in employer-led workshops and tasks with leading companies like BT Group, CrowdStrike, and Lloyds Banking Group to develop skills in technology, coding, and innovation.

EDUCATION

University of East Anglia || Norwich, UK   September 2022 – July 2025

*BSc Computer Science – **Second year grade: 67%***

    Relevant Coursework: Data Structures and Algorithms, Software Engineering, Architectures and Operating Systems, Data Science, Systems Analysis, System Development, Database Systems, Object-Oriented Programming, UX/UI.