HARRY MCDONAGH

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SKILLS

- Java, Python, JavaScript, HTML, CSS, ReactJS, 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, operating both autonomously and collaboratively within a team environment.
- Utilized VBA and a database to automate the invoice mailing process, significantly improving efficiency by eliminating the previously manual method.
- Administered Microsoft accounts for customers' employees, encompassing 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: 06/2022

- Developed "Cambodia Care", an eco-tourism website with the goal of assisting 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, utilizing Express-Session for secure session management and dynamic page rendering.

VisualiseIT: 06/2022 – Present

- Currently developing "VisualiseIT," a web application focused on visualizing essential computer science algorithms.
- Creating interactive visual representations of algorithms to enhance understanding and learning.
- Aimed at providing a practical educational tool for computer science students and enthusiasts alike.

EXTRACURRICULAR & CERTIFICATIONS

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

- Set up a local dev 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 hands-on 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 Computing Science

     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.