DEMPSEY PALACIO-TASCON

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EDUCATION/QUALIFICATIONS

University of Warwick   **Sept 2019 – July 2023**
- MEng Discrete Maths (Maths and Computer Science) – Upper Second Class Honours

Kings College London Maths School   **Sept 2017 – Jun 2019**
- A-Level grades: Further Maths A*, Maths A*, Physics A, Computer Science A (AS)

Bacons College London   **Sept 2012 – Jun 2017**
- GCSEs: 8 A* - B including 9 in Maths and A* in Physics and A in Chemistry, Business and Computer Science

LARGE SCALE PROJECTS

Real Time Localised Private Chat Server   **May 2024 – Nov 2024**
- Developed a rapidly deployable, lightweight private chat server accessible through any modern web browser, enabling real-time communication between users.
- Implemented the server using Go for high performance and efficient concurrency handling, and Web Sockets to facilitate real-time, bidirectional communication between clients and the server.
- Utilized Express.js and Node.js for handling HTTP requests, managing user sessions, and integrating various backend services.
- Leveraged Docker to containerize the application, simplifying deployment and allowing for consistent performance across various environments.

Blog Full Stack Application   **Jan 2024 – May 2024**
- Developed a dynamic blog application using Node.js, React and Tailwind CSS for the frontend, Spring Boot for the backend, and PostgreSQL for the database.
- Enhanced performance and SEO optimization through server-side rendering, caching and designed a visually appealing, responsive user interface (Tailwind CSS).
- Created RESTful APIs with Spring Boot to ensure efficient data exchange between frontend and backend, maintaining a scalable architecture with ORM.
- Integrated PostgreSQL for data storage, optimized performance with indexing, and utilized Agile methodologies to ensure seamless project progression.

Inventory Management System for Small Businesses   **Sept 2023 – Jun 2024**
- Built an inventory tracking app enabling businesses to manage stock levels, track sales, and reorder items.
- React and Tailwind CSS for frontend; Go for backend with a REST API; PostgreSQL for relational data storage.
- Created an intuitive UI to view, edit, and search inventory items.
- Integrated automated push alerts for low-stock items and daily reporting on sales metric.
- Collaborated with a business owners to plan, design, and test the project, demonstrating effective communication and client relational skills.

WORK EXPERIENCE/VOLUNTARY WORK

freeCodeCamp London – Assistant Software Advisor   **Sep 2023 – Current**
- Assisted in planning, organizing, and executing software development workshops, enhancing participants' technical skills and confidence, resulting in a 20% uptick in attendance and participation.
- Provided support and guidance to club members, addressing their questions, and facilitating their learning journey.
- Organized and led technical workshops on various programming languages and software development methodologies, including Data Structures and Algorithms (DSA), System Design, and Agile development practices.

The Hydrant at Monument – Front of House Staff   **Dec 2023 – Aug 2024**
- Expertly guided customers through a diverse, weekly-changing selection of craft beers, providing a tailored and enjoyable experience that fostered strong relationships with repeat customers.
- Demonstrated adaptability and versatility by seamlessly transitioning between roles in a fast-paced, high-pressure environment, ensuring efficient and consistent service across all operations.
- Contributed to increased sales through personalized recommendations and deep product knowledge, enhancing customer satisfaction and driving repeat business.
- Maintained clear and effective communication with both customers and team members, ensuring that customer needs were met promptly and that the team operated cohesively during busy shifts.

Technical Skills

Programming Languages
- JavaScript/TypeScript (Advanced) - Strong experience with frontend frameworks like React, building modular and reusable components.
- Java (Advanced) - Experienced in backend development using Spring Boot, including security, authentication, and data handling.
- Go (Advanced) – Gained proficiency in high-performance API development, focusing on concurrency and memory management.
- Python (Intermediate) - Used extensively for data processing and machine learning in backend data pipelines.

Databases
- PostgreSQL (Intermediate) - Learnt officially during degree and sharpened skills by utilising it in various projects that required different schema/database designs (skills also transferable to other SQL based databases).
- MongoDB (Intermediate) - self-taught for future projects where relational databases are not suited.

Other Technologies:
- Git/GitHub - Keep local version copies of all projects and upload major version updates to a GitHub for hosting. Also have engaged in code edits and reviews for major open-source projects through GitHub.
- Docker - Containerised several projects to improve performance on other machines.