

DEMPSEY PALACIO-TASCON

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[Personal Website](#) | [LinkedIn](#)

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

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.
- Integrated PostgreSQL for data storage, optimized performance with indexing.

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 – Software Engineer & 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.
- Led website development, enhancing UI and accessibility to create an inclusive user experience.

Technical Skills

Programming Languages

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

Databases

- PostgreSQL - 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 - self-taught for future projects where relational databases are not suited.

Other Technologies:

- Git/GitHub - Active participant in collaborative development, contributing to open-source projects by properly utilising branches, forks and pull requests. Experience setting up GitHub Actions for linting, testing and deployment.
- Docker - Containerised several projects to improve performance on other machines.