MARIO PORTILLO HERNAIZ

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Technical Skills

Languages: TypeScript, Java, JavaScript, SQL, Python, C++, PHP, OOP, Web-dev languages
Frameworks: React, Next.js, SQLite, JavaFX, Socket.IO

Experience

Software Developer   **Jul 2023 – July 2024**
Avco Systems   *Slough*
- Implemented new features, debugged and fixed defects by writing high quality, unit tested code.
- Assisted with requirements analysis and scoping of new projects as well as communicating directly with clients.
- Deployed and supported applications in Avco Systems' data centre and within cloud service providers.

Web Developer – Free Lance   **Summer 2022**
All City Cleaning   *Remote*
- Contributed directly towards the digital transformation and early development of a cleaning company.

Assistant and Maintenance Surveyor at HS2   **July 2021 – Sept. 2021**
Dragados – Geocisa UK   *London*
- Maintaining and updating software databases used to track movement from the Victoria Line underground station.

Projects

Freeater | *TypeScript, React, SQL, JavaScript* | Business Project
- Worked in a team of 4 co-founders for the development of a community platform for individuals with food allergies.
- As the sole developer of the platform, I worked full-stack on the project from designing an intuitive front-end user interface to building a robust back-end system for data handling and analysis.

Charity Network | *TypeScript, React, SQL, JavaScript* | Personal Project
- Founded Charity Network, an online platform that enables charities to connect, communicate, and share resources, allowing them to meet each other's needs and collaborate effectively.
- The platform also provides a space for promoting charitable activities and events, fostering greater community engagement and support.

Voice Recognition AI | *C++* | Personal Project
- Created my own voice recognition AI using an open-source hardware platform called "Arduino UNO".
- This piece of hardware received a voice input through a microphone and outputted a reply through a set of speakers.

Neural Network – AI | *Java* | University Coursework Project
- The Artificial Neural Network - specifically a Multi-Layer Perceptron (MLP) – was trained using Backpropagation.
- In this project, I pre-processed data, implemented an algorithm, trained and selected the network, evaluated the model and compared it with another model.

Additional projects on my GitHub.

Education

Loughborough University   **Oct. 2021 – Jun. 2025**
BSc in Computer Science with Placement Year   *Loughborough*
- First & Second Year: 1:1 (First Class)

Ashcroft Technology Academy   **Sept. 2018 – Jun. 2020**
- A-Levels: Maths (A), Computer Science (B), Further Maths (C)   *London*
- AS Levels: Physics (B)

Achieved Positions

Media Co-ordinator: Loughborough AU Kickboxing Team.   2022 – 2023
Social Student Involvement Officer: Loughborough Computer Science department.   2022 – 2023
Club Captain: Leander Swimming Club.   2019 – 2021
Senior Prefect: Represented one of the five houses in my secondary school.   2018 – 2019