

# MARIO PORTILLO HERNAIZ

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[LinkedIn](#)

[GitHub](#)

## Technical Skills

**Languages:** TypeScript, Java, JavaScript, SQL, Python, C++, PHP, Web-dev languages

**Frameworks:** React, Next.js, SQLite, JavaFX, Socket.IO

**Methodologies:** OOP, Agile Development, Unit Testing

## Professional 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

- Led the early-stage digital transformation of a cleaning company, developing a user-friendly web interface to streamline business operations, increasing client engagement.

### Assistant and Maintenance Surveyor at HS2

July 2021 – Sept. 2021

Dragados – Geocisa UK

London

- Managed and updated critical software databases for HS2, tracking the movement and safety metrics of infrastructure, ensuring accuracy for ongoing projects.

## Projects

### Freeater | TypeScript, React, SQL, JavaScript | Business Project

- Co-founded and developed an innovative platform for users with food allergies, enabling verified feedback on restaurant allergy accommodations across the UK.
- As the sole developer, I led full-stack development, from crafting an intuitive front-end experience to building a scalable back-end system to handle user data and analytics.

### Charity Network | TypeScript, React, SQL, JavaScript | Personal Project

- Founded and developed Charity Network, a platform for charities to communicate, share resources, and collaborate effectively, improving resource distribution and community engagement.

### Voice Recognition AI | C++ | Personal Project

- Engineered a custom voice recognition AI system using Arduino UNO, enabling voice-controlled interactions, which enhanced the user interface for home automation projects.

### Neural Network – AI | Java | University Coursework Project

- Developed a Multi-Layer Perceptron (MLP) Neural Network using backpropagation, implementing pre-processing, training, and model evaluation techniques, achieving high accuracy in predictions.

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)
- AS Levels: Physics (B)

London

## 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