

MARIO PORTILLO HERNAIZ

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Education

Loughborough University

BSc in Computer Science with Placement Year

Oct. 2021 – Jun. 2025 (Current)

Loughborough

- First & Second Year: 1st Class

Experience

Software Developer – Full Stack

Jul 2023 – July 2024

Avco Systems

Slough

- Implemented new features, debugged and fixed defects by writing high quality, unit tested code.
- Participated in 100+ code reviews, contributing to continuous integration processes and improving overall team code quality by over 20%.
- Assisted with requirements analysis and scoping of new projects as well as communicating directly with clients.
- Significantly improved unit test (40% → 70%) and end-to-end coverage to boost the project's reliability and quality.
- 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 and responsive 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, Node.js, SQL, JavaScript | Business Project

- As the sole developer, led full-stack development, implementing a responsive front-end using TypeScript and React, optimizing for mobile and desktop devices through CSS Flexbox/Grid and media queries.
- Designed and managed a SQL database architecture, including user data, feedback, and allergy information, ensuring efficient querying and secure data storage.
- Built a secure back-end system using Node.js with user authentication, handling sensitive allergy data through API integration and implementing industry-standard encryption techniques.

[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.

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

Volunteering Positions

Head of Editing: Loughborough Student Union Media.

2024 – 2025

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