Jay Mistry

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EDUCATION

Imperial College London - Electronic and Information Engineering (To Graduate in 2025).
Obtained the **Dean's List** in my 1st year for academic performance (top 10% of the year).
1st Year Final Project – building a small Mars rover to detect signals in a team of 6.

A-Levels, 2020-2022: Maths – **A***, Physics – **A***, Computer Science – **A*** (Coursework: designed and built a normalised MySQL database, with a desktop app to perform CRUD operations (C#)), EPQ – **A**
AS-Levels, 2021-2022: Further Maths (self-taught) – **A**

SKILLS

Programming Languages: TypeScript (Intermediate), C++ (Intermediate), Python, HTML/CSS, C#, SQL.

Design Tools: Figma.

Completed Courses: Asynchronous JavaScript Programming, Backend Development with Node.js and MongoDB, React.

PROJECTS

Full-stack web app to showcase a client's work and cooking recipes:

- **Front End**: HTML, Bootstrap, SCSS and JavaScript (with jQuery) | **Backend**: Node.js
- Displayed their latest videos using the YouTube Data APIs.
- Sped up development of the front end using SCSS and Bootstrap.
- Integrated an app that converts Word documents to HTML files, to upload recipes.
- Required creating REST API endpoints using Express.

Website for a client to showcase their work (www.ytgeekstreet.com):

- **Used**: HTML/CSS, JavaScript, PHP.
- Website was designed in Figma and developed from scratch.
- Created custom HTML elements using JavaScript, for reusability and maintenance.
- Used PHP to make a REST API call using cURL, to process a reCAPTCHA form.

Simple YouTube bot and Data gathering tool:

- **Used**: C# with WPF (UI Framework that uses XAML).
- Automated posting comments and subscribing to many YouTube channels.
- Fetched and organised the videos a channel had released, into a CSV file.
- Used multithreading to keep processes running in the background, with a responsive UI.
- Used YouTube Data API library and OAuth 2.0 Authentication to access and push data.

Smart Alarm clock with a Raspberry Pi (fetches the time from Google's NTP Server):

- **Used**: Python
- Designed and built a circuit using a shift register and 4-digit 7-segment display.
- Used SSH and the Linux terminal, to connect and interact with the Raspberry Pi.
- Wrote a program to implement the functionality of the clock.

PROFESSIONAL EXPERIENCE

(Volunteering) Zero Gravity Mentor - Helping a student from a disadvantaged background get into a top University, by informing them and aiding decision-making on the application process, providing feedback and support. Improved my communication skills, both listening to them and coherently presenting ideas.

M&S Customer Assistant - developed confidence and communication skills, through customer interactions, and an eye for detail, keeping stock tidy and presentable.