

EMMAN RUIZ CUNANAN MEDINA

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EDUCATION

- **Queen Mary University of London** September 2024 – June 2027
 - Bachelor of Engineering (BEng) – Computer Systems Engineering
 - Grade: Expected First-Class Honours
- **Chelsea Academy** September 2022 – June 2024
 - A-levels: Computer Science (B), Mathematics (B), Psychology (B)

SKILLS

- **Technical skills:**
 - **Programming Languages:** Python, Java, Dart, SQL, HTML, CSS, JavaScript, TypeScript, PHP, GDScript
 - **Frameworks and back-end services:** Firebase, Flutter, React.js, Next.js, Supabase, Tailwind, Bootstrap, Selenium, Junit, Godot
 - **Databases:** PostgreSQL, MySQL, SQLite
 - **Networking and protocols:** TCP/IP, HTTP, REST APIs
- **Languages:** Filipino (Native), English (Fluent)

WORK EXPERIENCE

Hyperlink London - Mile End, London, United Kingdom

Software Engineer (Part-time)

October 2025 – Present

- Maintain back-end software components including a RESTful API written in Python, and a PostgreSQL database, both designed to communicate and receive data from a prototype Hyperloop pod
- *Software design and implementation:* Collaborate in a team of 4 to design and implement a web-based inventory management system for tracking in-stock hardware components for the Hyperloop prototype
- *Project management:* Boost productivity through use of project management and version control tools such as Git and GitHub Projects to monitor tasks, feature changes, additions and bug fixes in the code
- *Time management:* Regularly attend meetings with the team to discuss progress on assigned tasks and address potential and ongoing issues

Downtown Dental Center - San Fernando, Pampanga, Philippines

IT and Automation Consultant (Freelance)

September 2025 – Present

- *Effective communication:* Discussed with clinic staff on tasks to be automated to improve data management and workflow efficiency to ensure a smoother experience for both staff and patients
- *Workflow design:* Designed a workflow to upload patient documents using QR-coded prefill Google Form links. Each form link has an ID prefilled, which identifies the type of document to be submitted.
- *Automation and scripting:* Implemented an automation script to rename and store patient documents submitted from a Google Form to Google Drive and automatically create year folders with a naming convention based on the information submitted in the form
- *Process optimisation:* Improved user productivity by reducing manual work and errors in data handling, improving decision making and allowing faster access to patient data

PROJECTS

Fitdex - Workout finder and routine tracker mobile app

Technologies: Flutter, Dart, Firebase

- Built a mobile app to browse a catalogue of exercises and create and edit workout routines. Engineered object-oriented UI components and services controlling database and authentication, while using Git for version control, issue tracking and bug fixes.

Ping Pong game

Technologies: Godot, GDScript

- Built a minimalist ping-pong game as part of the “20 Games Challenge” using Godot Game Engine. Designed and implemented game mechanics including paddle and ball physics, controls, scene management collision handling and node interactions within a game loop.

Horse Race Simulator

Technologies: Java, Swing

- Built a graphical horse race simulator program that allows the user to manage and customise horses and race track conditions. Followed closely the program’s specifications and requirements by implementing a currency-based betting system and a module to view past races and stats for each participating horse.