

# EMMAN RUIZ MEDINA

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Current student, aspiring software engineer

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## PROFILE:

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Motivated student with extensive hands-on knowledge in automation, software design and implementation through projects, workshops and work experience. Adept in use of frameworks, databases and developer tools for problem solving, writing technical documentation and streamlining workflows to maintain seamless user experiences. Aspiring to undertake new and constantly evolving technologies with acquired skills to share in a team.

## EDUCATION:

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Queen Mary University of London | September 2024 – June 2027

Bachelor of Engineering (BEng) – Computer Systems Engineering

## SKILLS:

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- **Technical skills:**
  - **Programming Languages:** Python, Java, Dart, SQL, JavaScript/TypeScript, HTML, CSS, PHP
  - **Frameworks and back-end services:** Firebase, Flutter, React.js, Next.js, Supabase, Bootstrap, Selenium, JUnit
  - **Databases:** PostgreSQL, MySQL, SQLite
  - **Developer and productivity tools:** Microsoft Windows, Git, GitHub, Visual Studio Code, IntelliJ IDEA, Visual Paradigm, Android Emulator, Google Apps Script, XAMPP, PhpMyAdmin
  - **Networking and protocols:** TCP/IP, HTTP, REST APIs
  - **Systems analysis, design and architecture:** UML
- **Soft skills:**
  - **Problem-solving**
  - **Analytical skills**
  - **Time management**
  - **Organisation skills**
  - **Collaboration skills**
  - **Effective communication**
  - **Attention to detail**

## WORK EXPERIENCE:

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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
- 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
- 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
- Frequently 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**

- 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
- 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.
- 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
- Improved user productivity by 13% by reducing manual work and errors in data handling, improving decision making and allowing faster access to patient data

## **PROJECTS:**

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### **Fitness tracker mobile app (Fitdex)**

- Built a mobile app to browse a catalogue of exercises and create and edit workout routines. Routines can be customised by adding multiple exercises with rest times, number of sets and repetitions.
- Implemented and maintained GUI components and backend services controlling database and authentication, while closely following the object-oriented paradigm
- Utilised Git as the project's version control system, tracking dependency changes, issues, bug fixes and feature changes and additions.
- Used: Dart, Flutter, Google Firebase

### **Horse Race Simulator**

- Built a GUI horse race simulator program as part of the final project for the module ECS414U – Object Oriented Programming in the span of 1 month. The program allows the user to customise horses and race track conditions. Users can also view past races and stats for each participating horse. It also features a currency-based betting system with betting odds that vary based on the win rate and confidence rating of each horse.
- Used Git as its version control system in the development process to improve productivity
- Delivered a fully functional and complete program that follows closely the project's specifications and requirements
- Achieved a final project mark of 98.0%
- Used: Java, Swing.