LUIS ROMERO

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PROFESSIONAL SUMMARY

Creative Full Stack Developer, with over 5 years of experience delivering robust, reliable and elegant web applications. Currently focused on Web Applications and AI-integrated systems using Python, JavaScript, TypeScript and cloud technologies. Experienced in Full Stack development, UX/UI design, LLMs, Retrieval-Augmented Generation (RAG), and modern frameworks like LangChain, FastAPI and Next.js. Experienced in deploying web applications, especially on AWS infrastructure. Passionate about building reliable applications with intuitive interfaces and seamless user experience. Committed to continuous learning and improvement in full stack development and AI.

EDUCATION

UNIVERSITAT POLITÈCNICA DE CATALUNYA   BARCELONA, SPAIN
Master in Automatic Systems and Industrial Electronics, specializing in Intelligent Systems   SEP. 2023 – FEB. 2025
- Graduated Cum Laude | GPA 3.52/4

UNIVERSIDAD DE LAS AMÉRICAS   QUITO, ECUADOR
Master in Business Administration, specializing in finance   FEB. 2018 – FEB. 2020
- Graduated Cum Laude | GPA 3.49/4

ESCUELA POLITÉCNICA NACIONAL   QUITO, ECUADOR
Bachelor of Science, Electronics and Control Engineering   SEP. 2007 – SEP. 2014
- Graduated Cum Laude | GPA 3.59/4

PROFESSIONAL EXPERIENCE

MIDOKURA (SOFTWARE AND AI)   BARCELONA, SPAIN
AI Software Engineer Intern   SEP. 2024 – FEB. 2025
- Contributed to the development and improvement of a Retrieval Augmented Generation (RAG) application, that uses internal technical documentation, to enhance engineer's efficiency, using LLMs, LangChain and FastAPI.
- Optimized system performance, code readability and maintainability by refactoring the code and implementing best practices.
- Improved the performance of the application by integrating novel techniques to enhance the RAG pipeline.

FREELANCE (SOFTWARE)   QUITO, ECUADOR
Full Stack Developer   JAN. 2018 – DEC. 2023
- Developed custom applications for clients from scratch, with custom databases, APIs, user interfaces and deployed in AWS Cloud.
- Developed several websites for a wide variety of clients, from an insurance company to an architecture and construction company.
- Helped many customers to build a strong position online developing their websites and enhancing its SEO.

INGELIN CIA. LTDA. (HEALTHCARE TECHNOLOGY)   QUITO, ECUADOR
Senior Technical Service Engineer and IT Engineer   AUG. 2014 – AUG. 2023
- Helped several customers with their needs and problems related to medical imaging devices, and the infrastructure required to operate them properly.
- Directed and collaborated in the planning and installation of several medical imaging devices.
- Incorporated IT systems and services in the company, optimizing the productivity and removing the need for manual work and paper usage.

PROJECTS

- **Bayas Freire Website.** A website for Bayas Freire construction firm, that showcases their past projects and their current projects on sale. Each project page has specific information with all its details, especially for projects on sale.
- **Midokura RAG System.** A Retrieval Augmented Generation (RAG) System that uses internal information to aid the engineers and developers with their tasks, including coding, to enhance their productivity.
- **Ingelin Management System.** A custom full-stack information system for Ingelin, that handles all data from clients, clients' devices, devices in stock, spare parts, contracts and digital reports. The system enhances the company productivity with a complete solution with all the company information and aids engineers in their tasks, by providing digital tools, especially for service reports.

LANGUAGES

Spanish (Native); **English** (Fluent); **German** (Basic); **Catalan** (Basic)

SKILLS

JavaScript | TypeScript | Python | Git/GitHub | SQL | React | Next.js | Node.js | FastAPI | Docker | AWS EC2 | AWS S3 | API REST | UX/UI Design | LangChain | TensorFlow | LLMs | RAG