Jose R. Morales

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Software developer. +2 years of back-end experience. +1 year of full-stack experience. Curious, innovative, and entrepreneurial mindset. Constantly seeking to improve and simplify user tasks through software.

Experience

Freelance — Remote
Software Developer. Back-end. Full stack — April 2023 – November 2024

- Worked on personal and client projects while finishing my degree.
- Created data retrieval tools for Open-Source Intelligence (OSINT) using Python, Playwright, and various APIs, reducing client data retrieval time by 90 %.
- Developed a football statistics visualization system for a local team, offering players detailed information about their performance. This system is a modern, mobile-friendly alternative to the official competition system, developed with NextJS and Supabase for data storage and authentication.
- Built a personal cloud platform for tools related to energy efficiency and solar energy. This optimized my client's electricity bills, reducing costs by 10 %-25 %. It also simulated photovoltaic installations, helping clients choose the right system and saving them up to 60 %. Back-end built with Python (FastAPI and Pandas for data calculation), front-end with React and NextJS.

Tecsisa — Madrid
Software Developer. Back-end Intern — January 2022 – July 2022

- Development of a SaaS for energy commercialization management.
- Quickly adapted to a completely new programming paradigm and tech stack.
- Worked in a team using agile methodologies (Scrum). Focusing mainly on API development with the functional programming language Scala and the Akka framework.
- Maintained and created API endpoints for third-party data storage and serving modeled information.
- Managed NoSQL databases, like Cassandra and ElasticSearch. Used Git, Jenkins, Docker, and Kubernetes for development and deployment. Deployed on AWS.
- In addition to my tasks with the API, I also worked in automating repetitive tasks, which increased my team's efficiency by the end of each sprint.

Education

UNIVERSIDAD AUTÓNOMA DE MADRID — Madrid
Bachelor's Degree in Computer Science Engineering — September 2018 - December 2024
Thesis: Built an open-source photovoltaic surplus management system (Github) and associated tools. Full integration with the Home Assistant platform.

42 MADRID - FUNDACIÓN TELEFÓNICA — Madrid
Bootcamp supported by Telefónica Foundation — October 2019 - April 2022
Admitted after passing a month-long series of projects and exams. Based on the peer instruction methodology.
Peer Instruction.

Skills

Programming languages and technologies: JavaScript/TypeScript (front-end and back-end, React, NextJS, Tailwind CSS, Astro, NodeJS), Scala (AKKA), Java/Kotlin, C/C++, Python (scripting and web frameworks), SQL and NoSQL databases (PostgreSQL, MySQL, MongoDB), Linux, Git, Bash, Docker, and Kubernetes.

Additional competencies: Software project development and management using agile methodologies like Scrum, software development and review using Peer Instruction methodology. Fast and self-taught learning. Adaptability. Teamwork. Problem-solving. Innovation.

Languages: Spanish (Native), English (Intermediate-Advanced, B2-C1)