Alejandro Iván Villegas Partida

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About me

Software Engineer with 2+ years of experience. I have worked with Python and JavaScript and I adapt quickly to new environments. I am good at solving problems, organizing tasks, and helping to maintain a positive and collaborative work atmosphere. Currently, I am focusing on distributed systems, cloud, and infrastructure to transition into large-scale engineering.

Experience

Media Aérea   **Remote**
Full Stack   **Nov 2023 – Currently**

- Developed and improved web applications using Django and Node, applying Clean Code principles and Object-Oriented Programming (OOP).
- Designed SQL database tables and wrote queries in MySQL and PostgreSQL to manage sensitive customs data.
- Built and maintained RESTful APIs, using Swagger for documentation and Git for version control.
- Improved system efficiency, reducing manual workload for clients by 80% through automation.
- Refactored codebases, reducing size by 50% while maintaining full functionality and stability
- Collaborated in Agile and Waterfall methodologies, participating in sprints, documentation, and performing pair programming to ensure safe production changes.
- Worked closely with project managers and stakeholders to deliver solutions under strict regulatory requirements.

Universidad Autónoma Metropolitana   **CDMX, Iztapalapa**
System Support Specialist   **Sep 2023 – February 2024**

- Developed an educational chatbot using Node and Vue to help students study and practice, leading to a 60% improvement in their results
- Simplified complex requests from stakeholders into a practical tool easy to maintain
- Built an admin system to manage study materials, questions, and exams without needing technical help.
- Automated internal IT processes, reducing manual workload and optimizing technical support for students and professors.
- Managed databases to ensure reliability and accessibility for educational materials and users records.
- Deployed web applications, ensuring a smooth rollout and high availability for end-users.
- Managed

RedPoint   **CDMX, Coyoacán**
Artificial Intelligence Developer   **Nov 2022 – February 2023**

- Developed object detection and classification models using Computer Vision techniques.
- Implemented machine learning projects on Raspberry Pi, integrating software with hardware components.
- Manage databases for AI-driven projects.

Education

Universidad Autónoma Metropolitana   **Unidad Iztapalapa**
Bachelor of Computer Science   **Feb 2023**

- GPA: 3.5/4.0
- Final Project: Human Posture Detection using Computer Vision
- Relevant Coursework: Algorithms & Data Structures, Software Engineering, Operative Systems

Leadership, Activities & Certifications

Neuroscience researcher CINVESTAV   **April 2023 – May 2023**
Research Assistant

- Optimized laboratory workflows by implementing data analysis scripts in Python and Julia
- Analyzed experimental data from hippocampal studies, improving the speed and accuracy of results.
- Collaborated with cross-functional teams of researchers and scientists.

Supervised Machine Learning: Regression and Classification   **July - 2022**
Certification

- Build machine learning models in Python using popular machine learning libraries NumPy & scikit-learn

IEEE - Computer Society   **Feb 2022 – Feb 2023**
President

- Collaborated with cross-functional teams on social impact projects, contributing to successful outcomes.
- Planned and delivered workshops, courses, and talks to provide support and guidance to students.

Microsoft Azure AZ900 Certification (Cloud Computing)   **Jan 2022**
Certification

- Foundational knowledge of cloud concepts and Microsoft Azure

Skills & Interests

Technical: Python, Javascript, SQL, Docker, Git, Linux (Bash).
Knowledge and interests: Distributed Systems, Infrastructure, Cloud, Clean Code, OOP, DDD, TDD.
Language: English (B2), Spanish (Native).
Soft skills: Teamwork, Adaptability, Problem-solving, Time management.