Miguel Angel Cabrera Victoria

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Skills

Languages: C/C++, Python, JavaScript, Java, SQL

Technologies: Docker, NestJS, Express, Git, S3, MongoDB

Experience

Automation Engineer Intern   *Mexico City, Mexico*
El Puerto de Liverpool   *July 2024 – Feb 2025*

- Automated business processes and transactions using UiPath and Python.
- Developed and deployed Robotic Process Automation (RPA) solutions to optimize workflows.
- Built a strong foundation in process automation and AI model training with UiPath.
- Improved operational efficiency by identifying and eliminating manual inefficiencies.

Software Engineer Intern   *Mexico City, Mexico*
AMX Contenido   *Feb 2024 – Jul 2024*

- Conducted extensive API testing using Postman, ensuring reliability and efficiency.
- Identified and resolved functional issues in API endpoints to improve backend performance.
- Contributed to the enhancement of backend systems using PHP, NestJS, SQL, MongoDB, and Docker.
- Applied debugging techniques to optimize system performance and reduce downtime.
- Participated in code reviews, ensuring high-quality and maintainable code.

Education

Instituto Tecnológico y de Estudios Superiores de Monterrey   *Mexico City, Mexico*
B.S in Computer Science and Engineering   *Sep 2021 – Present*

- Concentration: Advanced Artificial Intelligence for Data Science
- Relevant coursework: Computing in Python, Object-Oriented Programming, DBMS, Software Engineering, Data Structures and Algorithms, Game Development, Machine Learning, Natural Language Processing, Software Lifecycle.

Projects

GPT-based Language Model   *repo* ⧉

- Developed a GPT-based model trained on a dataset from Project Gutenberg to explore the potential of language models in generating coherent, contextually relevant text.
- **Tools Used:** Python, PyTorch, NumPy.

RESTful API with Role-Based Access Control   *repo* ⧉

- Developed a RESTful API using Node.js and Express, implementing role-based access control (Admin, Moderator, User) and authentication/authorization.
- Used MongoDB for data storage and Docker for containerization, ensuring scalability.
- Conducted API testing with Postman to validate performance and security.
- **Tools Used:** Node.js, Express, Docker, MongoDB, Postman.