

Oscar Antonio Juárez Jiménez

Artificial Intelligence Engineer



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Oscar_JuJi



OscarJuJi



oscarjuji.github.io/Portfolio/



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Education

National Polytechnic Institute (IPN)- Escuela Superior de Computo

México, CMDX

Bachelor's Degree in Artificial Intelligence Engineering – GPA: 9.5/10

2025

Relevant Courses: Machine Learning, Digital Image Processing, Natural Language Technologies, Neural Networks and Deep Learning, Advanced Neural Networks, Software Engineering for Intelligent Systems, Parallel Computing, Bio-Inspired Algorithms.

Professional Experience

Banco de México | Full-Stack Intern

Jun 2024 – Dec 2024

- Optimized performance and improved the user experience by enhancing the interface and backend using SQL, HTML, CSS, Java, JSP, and JavaScript.
- Managed SQL databases, ensuring data integrity, security, and efficiency.

Projects

Object Segmentation System for Indoor 3D Model Editing Using NeRF

- Designed an AI-based object segmentation system for editing 3D models in indoor environments.
- I improved the system's accuracy by implementing Deep Learning and computer vision models (NeRF, Stable Diffusion, Inpainting, and image segmentation).

RAG ChatBot

- I collaboratively developed a Retrieval-Augmented Generation (RAG) system for LLM to generate summaries and answer natural language queries about Mexico's Diario Oficial de la Federación (DOF).
- Used LangServe and LangChain for model retrieval and Pinecone for vector storage.

Student Management System

- Developed a web system for enrollment management and course assignment in collaboration with a development team.
- Validated inputs, ensured responsiveness, and strengthened database security. To check out more of my projects,

please feel free to visit my own portfolio at <https://oscarjuji.github.io/Portfolio/>

Courses & Certifications

- Legacy Responsive Web Design Challenges – FreeCodeCamp
- Legacy Python for Everybody – FreeCodeCamp
- Learn AI Skills Challenge – Microsoft
- JavaScript Algorithms and Data Structures – FreeCodeCamp
- Oracle Next Education – Alura LATAM
- Google Cloud Career Launchpad – Cloud Skills Boost

Skills

Programming Languages: Intermediate: C/C++, Python, Java, JavaScript, SQL, and Excel; Basic: C#, CUDA, GO, PHP, TypeScript, R.

Tools & Technologies: Intermediate: Git, Google Cloud Platform, Docker, HTML & CSS, AI/Machine Learning, Tableau; Basic: Power BI, MLFlow, Kubernetes, Azure.

Soft Skills: Critical and creative thinking, tolerance to frustration, adaptability, resilience, proactivity, responsibility, effective and assertive communication, emotional intelligence.

Languages: English - B2, Spanish - Native