VIDRIO AMADOR ARMANDO

Computer Science Engineer Student

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EDUCATION

Instituto Tecnológico y de Estudios Superiores de Occidente (ITESO)
Computer Science Engineer — Expected Graduation: Dec 2025

Technical Skills

Python, Java, Git, GitHub, SQL, SQL SERVER, Linux, Docker, AWS services, Pandas, HTML, CSS, Javascript, nodejs.

PROJECTS

Auto parts data warehouse

2024

Designed an **ETL** pipeline as part of a two-member project group leveraging **KNIME** that processed and populated data warehouse in **SQL SERVER** with over 1 million records; the solution is used to decision-making tasks.

- Generated impactful queries within the context of a large dataset managed through **Neo4j**, resulting in over 200 optimized paths being established for more efficient information retrieval during analysis tasks.
- Engineered interactive data visualization tools with **Power BI**, enabling identification of top-performing products based on customer behavior analysis.

Netflix shows analyzer

2024

Developed an innovative **Python** application that leveraged advanced data analysis techniques with **Pandas** and **Streamlit**; the project facilitated deeper insights into viewer preferences and improved recommendation accuracy for 10+ genres.

- Developed insightful visualizations for show analysis using Matplotlib, enabling the identification of key trends which led to an enhanced understanding of viewer engagement across 15 diverse genres.
- Transformed and cleaned over 10,000 rows of public datasets using Pandas; streamlined data processes that enhance overall analysis speed by reducing preprocessing time from hours to minutes.

Web Application

2023

Created an E-Market application alongside a three-member team, leveraging **JavaScript**, **NodeJS**, and **Bootstrap** to enhance user experience; project completed within the designated timeline of 12 weeks.

- Engineered a robust **RESTful API** using **JavaScript**, facilitating seamless data exchange between the web application and **MongoDB** database, resulting in improved response times by 40% for user requests.
- Established a seamless connection to a **Mongo database**, enhancing data storage and retrieval capabilities, which resulted in reduced application response by reducing load times from 5 seconds to under 2 seconds.

NoSQL databases & Python App

2022

Architected a **Python**-based tool for managing **Cassandra** and **Mongo** databases, improving data processing speed by 50% and enabling real-time analytics for decision-making in the data-driven marketing team.

- Implemented search and filtering features for specific data extraction.
- Provided a user-friendly interface with functions tailored to facilitate efficient information retrieval and analysis for marketing strategies.