

Emilio Zavala Miceli

Software Engenieer

CONTACT

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[Portfolio web](#)
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ABOUT ME

Data Analyst & Python Developer specializing in Sports Technology

A seventh-semester Computer Systems Engineering student with demonstrated experience in developing software solutions and performing data analysis to optimize processes and decision-making. Passionate about the intersection of technology and sports, with a focus on applying Artificial Intelligence for performance analysis.

TECHNICAL SKILLS

- **Languages:** Python, SQL
- **Data Science & AI:** Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV
- **Data Visualization:** Power BI, Seaborn
- **Development:** Git, GitHub, Flask, React, Streamlit, Chatbots
- **Databases:** Basic management of relational databases

PROFESSIONAL EXPERIENCE

Piquero Technology and Sports | Software Developer (Internship) | Summer 2025

- Developed a Q&A chatbot for a national swimming event that host over 500 people, automating responses to frequently asked questions and enhancing the attendee experience.
- Designed and programmed a Python algorithm for data conversion between Hy-Tek (.hy3) swimming management software and Excel, eliminating manual data entry and reducing errors.

RIANSA | Data Analyst (Internship) | Summer 2024

- Created and managed interactive Power BI dashboards to visualize and analyze nationwide sales data.
- Identified top-performing products and key client locations (oil wells) with the highest purchase volumes, generating insights that supported the sales strategy.

EDUCATION

B.S. in Computer Systems Engineering | 2022–Present

Universidad de las Américas Puebla

Achievements & Activities

- Participant, Hackathon ETH 5 de Mayo Puebla (2024): Collaborated in a team to rapidly develop a decentralized application prototype on the Ethereum blockchain.

CERTIFICATIONS

- Data Manipulation with pandas | *DataCamp*
- Joining Data with Pandas | *DataCamp*
- Data Manipulation and Transformation with Pandas and NumPy | *Platzi*
- Data Visualization Principles for Business Intelligence | *Platzi*
- Professional Git and GitHub Course | *Platzi*

KEY PROJECTS

Winner Way / AI Tennis Coach (Full-stack)

- Developed a comprehensive tennis analysis platform using React, Python, and Flask, featuring an AI-powered coach that analyzes player biomechanics and strategy from video.
- Implemented OpenCV for court keypoint detection and Dynamic Time Warping (DTW) algorithms for player movement analysis.

xG Prediction Model

- Built and trained a machine learning model using Scikit-learn and Pandas to predict Expected Goals (xG) in soccer, utilizing 2022 FIFA World Cup data from StatsBomb.
- Achieved a comparable performance to industry-standard models by implementing a Logistic Regression model for accurate shot quality prediction.