MIGUEL ANGEL
TRUJILLO MONRROY
Data Enginnering

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LinkedIn

PROFESSIONAL PROFILE

Data Engineering Specialist and Systems Engineer with more than 3 years of experience in the design, management and optimization of relational and cloud data solutions. Expert in PostgreSQL, MySQL, Azure SQL and Snowflake, with solid knowledge in ETL flow development, process automation and data analysis. Fluent in tools such as Python, Docker and cloud platforms such as Azure and Google Cloud. Currently pursuing certifications in AWS and Google Cloud to strengthen capabilities in multi-cloud environments. With a background in teaching and applied research, able to translate business needs into scalable technical solutions.

WORK EXPERIENCE

INFOTEC - Centro de Investigación e Innovación en TIC | Research and Teaching Software Engineer | 2025 - Actuality

- *Development of cloud solutions with Google Cloud and Docker containers.*
- *Academic background in programming fundamentals, databases, Python, Java, DevOps and web development.*
- *Leader in research projects.*
- *Participation in technological innovation projects focused on public data and information analysis.*

Freelancer Legosoft | Data Engineer and Full Stack Developer | 2017 - Present

- *Building data pipelines in Azure and Google Cloud with batch and real-time processing.*
- *PostgreSQL and MySQL database management for large-scale data ingestion.*
- *Development of analytical dashboards with Power BI and Tableau.*
- *Development of APIs and web applications with Laravel, Flask and Spring Boot.*

TecNM Orizaba - Postgraduate and Research Division | Educational video game developer and researcher | 2023 - 2025

- *Development of the video game FocusVR to improve attention in children with ADHD.*
- *Analysis of data collected with R and Python, reporting with Power BI.*
- *Publication in CIMPS 2024 congress; integration of immersive technologies and data science.*

Maxiservicios ABA | Cordoba, Veracruz | Intern - Data and IoT Analyst | 2022 - 2022 (6 Months)

- *Design of data collection system with ESP32 and infrared sensors.*
- *Implementation of ETL processes in Python and visualization with Power BI.*
- *Generation of sales simulations and analysis for decision making.*
- *Integration with Snowflake and Azure for performance analysis.*

TecNM Orizaba - Graduate and Research Division | Full Stack Developer | 2021 - 2021

- *Statistical module development with Laravel, Spring Boot and Apache/GlassFish servers.*
- *APIs consumption and data management for web statistics reports.*
- *Application development in React and Angular environments.*

PEMEX Logística | TAD Escamela, Ver. 2015 - 2017

- *Fuel consumption and transportation analysis and reporting.*
- *Automation of internal processes through data structures and SQL.*
- *Analysis of data collected with R and Python, reporting with Power BI.*

PROFESSIONAL TRAINING

Computer Systems Engineering, TecNM Campus Orizaba, 2017 - 2021 **License: 13307746**

Mechatronics Engineering, Universidad Tecnológica del Centro de Veracruz, 2019 - 2022 **(certificate in process)**

Master's Degree in Computer Systems Engineering, TecNM Campus Orizaba | 2023 - 2025 (To be awarded)

OUTSTANDING SKILLS

Technical Skills
- Databases: PostgreSQL, MySQL, Azure SQL, Snowflake
- Data processing: ETL, transformation, modeling, data cleansing
- Cloud: Azure, Google Cloud Platform (GCP), AWS (in progress)
- Programming languages: Python, Java, PHP, SQL
- Frameworks and web development: Laravel, Spring Boot, Flask, React, Angular
- DevOps and containers: Docker, GitHub Actions, CI/CD, Azure DevOps
- Visualization and BI: Power BI, Tableau
- Others: REST APIs, data architecture design, object-oriented programming
- Languages: Spanish (native), English (advanced - B2 CEFR)

ADDITIONAL INFORMATION

- Active member, Google Developers Group Heroica Veracruz
- Instructor, programming fundamentals, cloud infrastructure (AWS, Docker), databases
- Ambassador, Torc Community
- Speaker and author, FocusVR project published in CIMPS 2024

CERTIFICATIONS

- In progress: Google Cloud Certified – Associate Cloud Engineer.
- In progress: AWS Certified Solutions Architect – Associate
- Planned: Microsoft Azure Data Engineer Associate
- Microsoft Specialist:
- GitHub Fundamentals