

Carlos Lezama

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Data Scientist and Software Engineer with three years of experience, excelling in a rapidly expanding startup environment.

Skills

Programming languages

Rust
Python
SQL
Typescript/Javascript
Golang

Technologies

Postgres
Docker
Snowflake
Qdrant
Next.js

Tools

Git
Neovim
Visual Studio Code
Jupyter
GNU Make

DevOps and Cloud

Terraform
GitLab CI/CD
GitHub Actions
Amazon Web Services
Google Cloud Platform

Experience

DD360

Data Engineer, July 2023 — Present

- Engineered and implemented a real estate advertisement deduplication algorithm using vision transformer embeddings and supervised metric learning, achieving 95% precision. Optimized processing time from 22 hours to 10 minutes with Rust, and reduced subsequent model processing by up to 6x.
- Designed and executed ETLs for real estate metrics to improve model monitoring and accuracy.
- Managed relational and vector databases, ensuring seamless serverless deployment and operation.
- Created multiple data scrapers to expand datasets, enhancing the accuracy and performance of predictive models.

RappiCard

Data Engineer, February 2023 — June 2023

- Contributed to a collaborative effort for database migration in a global banking environment, implementing data isolation by country to enhance security and enforce strict information access controls among regions such as Mexico, Colombia, Peru, Brazil, and Chile.
- Developed and maintained automated data validation and testing processes to ensure data accuracy and completeness.
- Responsible for securely sharing hashed information with universities for research purposes.
- Worked collaboratively with cross-functional teams to define data requirements and ensure data quality and consistency.

Customer Lifecycle Analyst, May 2022 — February 2023

- Collaborated in the planning of strategies for increasing credit lines to maximize profit based on the consumption and payment patterns of our customers.

Datalab ITAM

Machine Learning Instructor, January 2022 — May 2023

- Provided personalized feedback and guidance to students to help them succeed on projects with a social focus.

Web Developer, January 2022 — December 2022

- Developed and redesigned ITAM's data science laboratory [website](#) using Hugo and GitHub Pages.

DiDi Food

Analytics Intern, December 2021 — April 2022

- Evaluated revenue optimization strategies to increase penetration and capture market shares for Mexico, Central America, and Colombia.

BlockchainDevs ITAM

Blockchain Development Intern, February 2020 — December 2021

- Proficient in the mathematical foundations of Blockchain and smart contract programming on the Ethereum network using Solidity.

Education

Instituto Tecnológico Autónomo de México (ITAM) — May 2023

Major: Bachelor of Economics

Minor: Economic Theory

- Statistical Learning Theory, Spring 2021
- Simulation Theory, Fall 2021
- Advanced Micro-econometrics, Spring 2022
- Empirical Industrial Organization, Fall 2022