

Daniela Lizarazo

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EDUCATION

The University of Texas at Austin

Master of Science in Information Studies. Dual specialization:

- Statistical Modeling and Data Science.
- Applied Deep Learning.

Austin, TX

Aug. 2022 – May 2024

Universidad Industrial de Santander

Bachelor of Science in Computer Science and Software Engineering

- Thesis: Computing Tool for Lung Parenchyma Damage Visualization on VR/AR Interface for Diagnosis

Bucaramanga, COL.

Apr. 2016 – Dec. 2022

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, R, C#, C/C++, SQL, GraphQL

Frameworks: React, Next.js, Node.js, Flask, Spring Boot, Django

Tools: Git, Heroku, Unity, AWS, Tableau, Snowflake, PowerBI, RStudio, Jenkins, Mirantis, Docker, Splunk, Postman

EXPERIENCE

Visa

Data Engineer

Austin, TX

March 2025 – Present

- Implement authentication and authorization standards (FIDO2, OAuth2, OID4VC) for Visa's Payment Passkeys (VPP), designing and maintaining APIs that handle secure passwordless payment flows across Visa's global partner network.
- Debugged and resolved critical production issues across Visa's B2CIAM distributed services, tracing failures spanning multiple microservices and stack layers to restore reliability across interdependent authentication systems.
- Scoped, designed, and built Visa's VPP internal customer service tool end-to-end for Europe's support team, owning both the backend API and frontend UI and replacing fragmented manual workflows with a unified platform.

Western Union

Data Analyst — Prepaid

Austin, TX

August 2024 – February 2025

- Owned all prepaid card data needs across risk, legal, marketing, and product teams; built validation pipelines that caught discrepancies before they reached director-level reporting.
- Built card lifecycle tracking analytics used directly in C-suite reporting, consolidating data from multiple sources into a single reliable view.

Data Analyst Intern (Denver, CO)

June 2024 – August 2024

- Analyzed prepaid card transaction success rates using CIP data, identified rule inefficiencies, and implemented CIP rule changes that improved transaction approval rates by 30%.

Gibson Consulting Group

Quantitative Research Intern

Austin, TX

January 2024 – May 2024

- Built interactive Python dashboards from scratch that let prospective clients self-explore their stakeholder survey data, replacing static report deliverables and shortening the sales cycle.
- Designed the underlying data models and statistical transforms powering each visualization, ensuring outputs were accurate and interpretable for non-technical audiences.

IC² Institute — Data and Decision Science Team

Graduate Research Assistant

Austin, TX

February 2023 – May 2024

- Conducted statistical analysis for I-Corps Hub and STEP UP Texas Juvenile Justice using SPSS, Python, and R; findings fed directly into research publications and program evaluations.
- Built and deployed a forecasting dashboard for the City of Austin Office of Innovation using Plotly and Dash on a Windows IIS server, giving the team a live view of key civic metrics.

School of Information - The University of Texas at Austin

Academic Assistant

Austin, TX

Aug. 2022 – Dec. 2022

- Supported 40 undergraduates in Introduction to Human-Centered Data, running lab sessions on pandas, numpy, and scikit-learn and providing one-on-one debugging help during office hours.

SnapEDA

Software Engineer

Remote

March 2021 – March 2022

- Owned full-stack improvements across a distributed Django/JavaScript codebase serving multiple concurrent client integrations, shipping features across both consumer-facing frontend and internal backend services.
- Rewrote and optimized 2000+ lines of SQL queries powering product data dashboards.
- Established code quality standards through comprehensive testing and shipped user-facing interface improvements end-to-end.

PROJECTS

IC² Institute DDS Team Website + Dashboard | Python, Flask, Dash, IIS, Git

May 2023 – Aug. 2023

- Built and deployed a full-stack web application and live data dashboard for the City of Austin, owning everything from Flask backend routing to Plotly visualization design and IIS server deployment.

Multivariate Extreme Event Detection on ESDL Data Cube | Python, JupyterLab, Git

Jan. 2019 – Aug. 2019

- Awarded a 3,000 EURO grant by the European Space Agency (ESA) for project proposal; presented findings at ESA Phi-Week 2019.
- Built a full data processing pipeline over a multivariate Earth system cube developed with ESA's satellite data.
- Implemented seasonality reduction, standardization, and KDE-based anomaly detection to characterize extreme climate events in the Colombian tropics.