NADIA FLOREZ

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SUMMARY

I develop and program methods and processes to consolidate, visualize and analyze diverse data sources to generate actionable insights and solutions for client services and product enhancement. I look to provide impactful value using predictive modeling techniques and data pipelines to drive strategic business solutions.

EDUCATION

M.A. in Applied Economics
University of Colorado Denver May 2016

B.A. in Economics, Applied Math minor
University of Colorado Boulder May 2013

RELEVANT WORK EXPERIENCE

Research Fellow, Center for Transportation Research, UT Austin July 2017 – Sept 2019

- Established automated data pipelines for data extraction, loading and transformation to cleanse, integrate, visualize and evaluate large datasets from multiple disparate sources
  - Developed spatial data models and mappings to integrate 6 large disparate data sources
  - Coded automated data workflows (using PostgreSQL, Python and R) for metric computation and visualization
- Developed data analysis tool (back-end and UI) to showcase value of using data-driven methods for decision-making
  - Closely worked with traffic engineers to refine UI and understand client's needs
  - Refined oral and visual communication to describe quantitative methods clearly and concisely
- Advanced data storage and archiving initiative for public agency
  - Instigated progress at critical stages by establishing essential workflows
  - Researched technical and industry developments, tools and trends to recognize best practices
- Delivered key recommendations on transit system evaluation for public institution
  - Quickly developed transportation domain-specific knowledge working with geospatial data
  - Exercised self-managing skills to carry out integral project deliverables
  - Refined project and time managing skills

PROJECTS

"The impact of same-sex marriage legalization on state suicide rates." 2014 - 2015

- Developed and presented novel research employing econometric inference
- Implemented econometric analyses with Python and R programming languages to:
  - Evaluate the effect of same-sex marriage state legalization on state suicide rates for young males
  - Establish statistical methods comparable to proprietary software with open source tools
  - Showcase a negative and significant (plausibly causal) correlation between explanatory and outcome variables using longitudinal data for causal analysis

LEADERSHIP

Advisory member, Think Dream Tank 2013 – 2015

- Established structure to founder's vision to execute clear deliverables:
  - Gained nonprofit status through the Rocky Mountain Peace Institute
  - Proposed 3 grants: Making All Voices Count (2014), and John Templeton Foundation (2015, 2016).
- Developed strong written communication skills to succinctly share ideas

OTHER SKILLS

- Strong analytical thinker with creative problem-solving strategies