

Daniel Bejarano

Data Scientist | Machine Learning Engineer

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Austin, Texas

SKILLS

- **Languages:** Advanced in Python (Scikit, Numpy, Scipy, Pandas, Keras, Spacy, Seaborn, Nltk, Django) and Excel. Experience with R, MATLAB and AMPL. Familiar with JavaScript, D3.js and HTML/CSS.
- **Platforms/Systems:** Experience with Docker and Git. Familiar with K8s, Kubeflow, Hadoop and Tableau.
- **Databases:** Proficient with Elasticsearch and PostgreSQL. Familiar with MySQL, SQLite and MongoDB.
- **Cloud:** Experience with Azure and AWS at scale and in production. Familiar with Heroku.
- **Theory:** Advanced in statistics and Machine Learning. Experience with Natural Language Processing methods.
- **Communication:** Advanced in visualizations methods, public speaking, and technical writing. Fluent in Spanish.

PROFESSIONAL EXPERIENCE

Cubic Corporation • Data Scientist • Austin, TX 04/19 – present

- Revamped, while serving as co-lead of NextBus Data Science team, a containerized Machine Learning pipeline to train predictive models and monitor performance, achieving prediction accuracy improvements of up to 15%.
- Reduced model training time by (1) implementing Bayesian optimization for hyperparameters tuning and (2) using game theory principles to simplify models via feature importance evaluations.
- Minimized operational costs by proposing and leading the migration from cloud to on-prem services.

<Independent Projects> • Data Scientist & Machine Learning Engineer • Austin, TX 05/18 – 04/19

- Built, with a partner, a website using machine learning to aggregate and display today's news from 300+ sources, mapped by similarity, grouped by topics and accompanied by metrics like bias, sentiment, and variance from mean.
- Obtained 1st place at Austin's 2019 Life Science Hackathon with a project to develop a platform that combats the dangers of polypharmacy in geriatric patients.
- Created a Natural Language Processing model to summarize and perform sentiment analyses of written comments from citizens of Austin, as part of a pilot project to increase citizens' engagement in public projects.

JE Dunn Construction • Project Engineer II • Austin, TX 12/16 – 09/18

- Built an Excel VBA program to collect construction field logs and streamlines the process of updating construction schedules, achieving a reduction of 20 minutes in the daily updating process time.
- Assisted in negotiating, buying out and managing subcontractors for two projects valued at over \$75 M.

Spire Consulting Group • Associate Consultant • Austin, TX 09/15 – 12/16

- Collected and aggregated data on a multi-million industrial construction project from multiple sources (construction logs, weather, schedules, emails, reports and letters) to then present to an international client.
- Developed new visualization methods of financial and schedule data to clearly present projects as stories to non-technical stakeholders. Subject-matter experts used these methods to present in court and legal reports.

Stanford University • Project Lead • Palo Alto, CA 12/14 – 09/15

- Global Engineering Programs – Program Leader – Kabale, Uganda
 - Led the development of a replicable groundwater pumping and storage system proposal with the potential to benefit 2000 people at its initial stage. Acted as liaison between local organizations and an international NGO.
- Global Urban Development Project – Economic Team Leader – Juarez, Mexico
 - Directed an economic development research group advising the government of Cd. Juarez on their urban development plans, including feasibility and trend studies.
 - Presented results and implementation strategies to Mexico's National Undersecretary of Energy.

TEACHING & MENTORING

- Taught at The University of Texas McCombs School of Business Data Analysis and Visualization Boot Camp.
- Program Coordination Chair for ACE Mentor Program of Austin from 2016 to 2018.

EDUCATION

Stanford University – Master of Science in Civil Engineering (NSF Graduate Research Fellow), 2015.

The University of Texas at Austin – Bachelor of Science in Civil Engineering, 2013.