Danton Roberto Noriega-Goodwin

danton.sh github.com/dantonnoriega linkedin.com/in/dantonnoriega

EXPERIENCE

MICROSOFT Redmond, WA

Principal Data Scientist (CoreAI – Analytics) — *Nov 2025 - Present*

- Forecast GitHub Copilot LLM traffic to guide third-party capacity planning
- Run what-if scenarios to confirm capacity plans and size new model launches
- Build agents that turn fast-changing repo metadata into maintained dimension tables

APPLE Cupertino, CA

Staff Data Scientist (Engineering) — *Oct 2023 - Oct 2025*

- Forecasted demand for Private Cloud Compute, Apple's GPU infrastructure for remote AI workloads
- Defined platform usage metrics that drove engineering and capacity decisions
- Worked with SREs and platform engineers to plan regional GPU deployments
- Built demand models from device growth, feature adoption, and latency data
- Investigated demand spikes and explained what changed and why
- Estimated workloads for new AI features using seed performance data before launch

Senior Data Science Manager (Business Operations) — *Oct 2021 - Sep 2024*

- Managed 4 data scientists and 5 contractors focused on cloud infrastructure costs
- Found expensive workloads and recommended fixes, cutting costs even as usage grew
- Mentored junior scientists, recruited new hires, and led cross-team projects
- Developed R packages, reviewed code, and advised on statistical methods
- Pushed for better documentation, reproducibility, and technical pragmatism

Data Science Manager (Finance) — *Oct 2020 - Sep 2021*

- Led a data science team analyzing infrastructure costs across finance and engineering

Senior Data Scientist (Finance) — *Oct 2018 - Sep 2020*

- Modeled storage growth to inform leadership infrastructure investment decisions
- Deployed time-series forecasts, dashboards, and reports used across finance and engineering
- Used difference-in-differences to estimate causal impact of service migrations on storage
- Authored 10+ R packages for telemetry and infrastructure data (e.g. *graphiter*, *hubbler*)
- Led recruiting, grew team from 1 to 7 data scientists

Data Scientist (Finance) — *Nov 2017 - Sep 2018*

- Modeled iCloud storage growth and its long-term costs

EDUCATION

Ph.D. Public Policy & Economics, *Duke University* (Durham, NC) *2019*
M.A. Economics, *Georgetown University* (Washington, DC) *2013*
M.S. Applied Statistics, *California State University at Long Beach* (Long Beach, CA) *2011*
B.S. Mathematics, *University of California at Irvine* (Irvine, CA) *2006*

PROGRAMMING

R	Expert. 13+ years of experience. First love. CRAN package author and contributor.
Python	Advanced. 7+ years. Current language. Pipelines, ETL, agents. Taught courses with it. ♥ polars.
SQL	Expert. 10+ years. Connoisseur of PostgreSQL, Presto/Trino, and HiveQL docs. Never nester.
bash	Expert user, proficient developer. 10+ years. Mostly for processing raw text files. CLIs > GUIs.
LLMs	Developer and daily user. 3+ years. Built production agents; Claude preferred for coding.
Others	dbt, git, docker. Dabbled with Julia, Stan, and Scala. Reluctantly capable analytics engineer.

ADDITIONAL INFORMATION

Native Spanish-speaker. Dual citizen of the USA and Chile. Lead vocalist in a SoCal pop punk band. Goaltimate (aging ultimate frisbee) player. Former AmeriCorps NCCC Team Leader. Cooks a mean kimchi & onion frittata.