

Forrest Hangen

Data Scientist • PhD

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Summary

Data scientist (PhD) with 6+ years of experience building data products and rigorous analyses. Expert in end-to-end product ownership, creating actionable insights from complex data, and collaborating across teams to support strategic initiatives. I thrive on diving into data to craft compelling stories.

Experience

Data Scientist @Phreesia

Remote

Feb 2024 - Present

- Owned end-to-end development of internal data products that drove increasing revenue, opened new selling markets, and improved QA.
- Deployed time-series forecasting models (Python, SQL, Snowflake) that opened new marketing campaign opportunities.
- Built agent-based simulation engine to evaluate operational scenarios to optimize rapid assessment of hundreds of revenue scenarios.
- Cut ETL runtime ~10x over 6M+ rows by optimizing multi-keyword search with Aho-Corasick; feeds crucial forecasting pipeline (AWS, Snowflake, Python).
- Automated quality assurance workflow during major transition, eliminating manual review for ~50% of campaigns while maintaining accuracy standards.
- Classified free-text survey responses (Spark NLP) to add actionable patient insights for doctors across ~4M+ responses/year.
- Demonstrated flexibility and rapid learning across diverse technical environments including cloud platforms, new tools, and evolving contexts.

PhD Researcher @Northeastern University

Boston, MA/Remote

Sept 2019 - Apr 2024

- Pioneered new network-based fuzzy-matching algorithm to connect corporate and property records to reveal inequities in housing conditions.
- Scraped and analyzed >1 million rental listings to reveal factors influencing discrimination against Housing Choice Voucher holders.
- Developed data processing pipelines to publicly curate large-scale administrative data (e.g., 311 reports).
- Taught graduate-level Big Data for Cities course (urban data science).

Education

Northeastern University

Boston, MA

PhD in Public Policy – *National Science Foundation Graduate Research Fellowship*

2024

Master of Public Policy (MPP)

2021

University of Rochester

Rochester, NY

Bachelor of Arts in Psychology (Honors) & Russian

2019

Skills

Core Programming: Python (9+ yrs), SQL (2+ yrs), Spark (2+ yrs), R (5+ yrs), Git, Linux

Data Tools: ETL/Data pipelines, Data visualization, Jupyter notebooks, Data app UIs

Infrastructure & Cloud: AWS, GCP, Docker, CI/CD, APIs, Snowflake, Postgres

ML/Stats: NLP, Statistical modeling, Time-series forecasting, Applied ML, Network analysis, Text mining

AI: Agentic AI workflows, MCP, RAG, Custom GPTs