

## SKILLS

<b>Tools and Languages</b>	Python, SQL, R, Supervised ML, Unsupervised ML, NLP, Git, Streamlit, AWS, Jira, Confluence.
<b>Quantitative Research</b>	Mathematical Modeling in Epidemiology (published).
<b>Communication</b>	English, Spanish.

## EXPERIENCE

### POLLY.IO

Staff Data Scientist

May. 2024 — Present

Remote

- Develop and implement data pipelines for various rate and mortgage products supporting high ARR Data Sharing initiatives.
- Train and maintain ML models for the generation of high-fidelity synthetic data supporting internal and client-facing efforts.

### EZOPS

Data Science Product Manager

Feb. 2022 — April 2024

New York, NY

- Led the development of a new no-code ETL product from inception, prototype, and design, all the way to launch and client support. Resulted in new revenue streams from three new accounts in non-adjacent market sectors in the first 2 months of existence.
- Designed and implemented an NLP Rule Matching/Discovery application using python and Streamlit. Resulted in up to 93% lower migration times for select client configurations.
- Defined and managed the Data Science product roadmap for multi-million dollar initiatives (EZOPS Curie, Pypeline, Rules Discovery), coordinating a team of 16 engineers, designers, testers, and analysts across 4 different timezones.
- Identified feature-outcome mismatch and wrote specifications that prioritized closing critical gaps in existing products and those still in development, resulting in a more robust offering with 77% fewer features (112 down to 37).
- Participated and assisted in the daily scrum meetings, as well as met weekly with CEO and VP of engineering to report on project progress and ensure alignment with the overall mission.
- Assisted in pre-sales and proofs-of-concept, funneling three major deals into the sales pipeline.

### EZOPS

Data Scientist

Aug. 2017 — Feb. 2022

New York, NY

- Joined the company at the seed stage where I worked as client-facing Data Science SME during client implementation projects at large custody and commercial banks. These efforts led to multiple clients and a \$5MM Series-A investment.
- Built and applied supervised ML models (Keras-NN & XGBoost) to post-trade data, leading to high classification accuracy which reduced operational overhead and lead to a 28% decrease in the closing times for various trade exceptions (up to approx. 70% for high-confidence predictions).
- Worked alongside client stakeholders to understand needs, limitations, advise them on data quality and best practices, oftentimes reducing data requirements by 60%+.
- Designed, developed, and deployed feature-engineering scripts client-side to help drive up ML performance metrics as needed, ensuring project benchmarks were met (98% High-Confidence predictions).
- Tested and applied ML tools and techniques to help address client concerns, including making models more transparent and interpretable (data drift, SHAP explainers, Model Cards, Anomaly Detection Algorithms).
- Conducted product demos and Proofs-of-Concept.

## EDUCATION

Bachelor of Science in Mathematics, Montclair State University.

2013 - 2016

## ACTIVITIES, AWARDS, & PUBLICATIONS

Controlling Epidemic Extinction Using Early Warning Signals (IJDY-D-22-00011R2) Top Graduating Senior in Mathematics	International Journal of Dynamics and Control Montclair State University, Class of 2016
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