

Erick David Cohen

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SKILLS

Technical/Coding: Python, R, SQL, Presto, Git, Linux Shell, HTML, JavaScript, CSS, React, MongoDB

Certification: AWS Machine Learning Specialty

Languages: Spanish (native), English (fluent), Hebrew (advanced)

Honors: CMU Rales Fellowship, Questbridge Fein Fellow

EXPERIENCE

Deloitte

Data Science Senior Consultant

Arlington, VA

June 2021 – August 2024

- **Meta**
- Implemented hybrid XGBoost and Prophet models for time-series forecasting leveraging Python and SQL to determine optimal quantity of servers to order for following quarter
- Parallelized analysis of large data for experiments using SQL, Shell scripts, and Python resulting in faster analysis
- Conducted statistical tests to determine validity and impact of group assignments in experiments with Python
- Investigated and made visualizations for data quality issue remediation with Python and SQL
- **State of Montana**
- Built community-based filtering recommendation engine using R, Python, Docker, and AWS for state's Health and Human Services website to provide public goods and services recommendations to residents
- Automated retraining and archiving of past models for easy auditing using Python and AWS
- **Internal Insurance Industry Team**
- Segmented large insurance brokers using unsupervised machine learning in Python for go-to-market strategies

Science and Technology Policy Institute

Data Science Research Associate

Washington, DC

February 2020 – June 2021

- Automated dozens of chi-squared tests for published NIH Transformative Research Award program evaluation
- Analyzed USGEO Earth Observations graph data in R to identify critical earth observation instruments
- Served on the White House Office of Science and Technology Policy's COVID-19 emergency response team to automate aggregation of infection rates reported from health agencies around the world, in Python
- Wrote Python code to web scrape government directive announcements and used natural language processing techniques to highlight directives that identified partner agencies to proactively address mandatory tasks
- Mentored and taught science policy fellows best practices for coding and reproducible research in R and Python

Aon

Account Specialist, Construction Service Group

Miami, FL

June 2019 – January 2020

- Built dashboards using R Shiny, giving customers an interactive platform to compare premiums and deductibles
- Analyzed client claims data to deliver insight-driven recommendations to mitigate risk and allocate funds
- Automated invoicing and contract drafting in Python resulting in reduced errors and faster processing

EDUCATION

Carnegie Mellon University

Master of Science in Data Analytics for Science

Pittsburgh, PA

May 2025

George Washington University

Bachelor of Arts in Economics and International Affairs, Concentration: International Economics

Washington, DC

May 2019

GPA: 3.72/4.0 (*magna cum laude*); *Special Honors in Economics*; *Dean's List (Fall 2015, Spring 2016, Spring 2019)*

PUBLICATIONS

Sally S. Tinkle, Xueying "Shirley" Han, Lara L. Rubinyi, Erick D. Cohen; *Evaluation of the Research Outputs from the 2010-2012 NIH Transformative Research Awards* (March 2021);

<https://commonfund.nih.gov/sites/default/files/HRHR%20TRA%20FY2010-12%20outcomes%20evaluation%20508-compliant.pdf>