Logan Cooper

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SKILLS

• Languages: Python, SQL, R, JavaScript

Frameworks: Pandas, scikit-learn, numpy, scipy, PyTorch, spacy, Flask, tidyverse, React, D3.js, Node
 Tools: Git, Amazon Web Services (AWS), Google Cloud Platform(GCP), Tableau, Excel

EXPERIENCE

• EBP US

Data Analyst

New York, NY

July 2023 - Present

- Utilized R and Arrow to build data cleaning and machine learning pipelines on 100+ GB datasets to predict economic impacts of changes to vehicle taxation in California on a contract worth over \$115,000.
- Translated economic models from Excel to MySQL and integrated them into our economic impact forecasting software so they could be used for transit planning in the state of Michigan on a contract worth over \$500,000.
- Evaluated linear, tree-based, and boosted models in Python (scikit-learn) for generating synthetic household vehicle preferences for use in a policy simulation project used by several East Coast states on a contract worth \$130,000.

Duke University

Durham, NC

Graduate Research Assistant

Feb 2022 - May 2022, Sep 2022 - May 2023

• Developed a unique research dataset utilizing Python and JavaScript scraper, amassing 80GB of broadcast news transcripts into a PostgreSQL database.

Pearson

Durham, NC

Data Science Intern

May 2022 - Aug 2022

- Constructed data pipelines utilizing Python, pandas, and SQL, facilitating the download, cleansing, transcription, and data modelling of 11.5 million assorted media documents, subsequently stored in Google BigQuery for NLP training.
- Prototyped an NLP-based search and recommendation engine, leveraging textbook data to better recommend learning resources to customers, including a Flask API and React frontend.

Federal Reserve Bank of San Francisco

San Francisco, CA

Software Developer

Jul 2020 - Jul 2021

• Developed a custom Java ETL tool, automating data conversion and QA processes and saving hours of business analyst and managerial time.

Forio

San Francisco, CA

Software Developer

Jan 2018 - Jun 2020

- Developed React/Redux frontends and Node (Express) backends for nine educational simulations, resulting in over \$990,000 in revenue for clients, including a public health policy simulation tool for the CDC.
- Devised an internal Node CLI tool, significantly reducing developer time per project and enhancing compliance with internal coding standards and saving between 8-16 hours per project.

EDUCATION

Duke University

Durham, NC

M.S. Economics and Computer Science

2021 - 2023

Selected Coursework: Machine Learning, Natural Language Processing, Databases, Topics in Data Science, Mathematical Statistics

U.C. Santa Cruz

Santa Cruz, CA

B.A. Global Economics (cum laude) 2012 - 2016

PROJECTS

- Modle: The ML Guessing Game: Game where users are shown a decision boundary generated by one of several machine learning algorithms (e.g. logistic regression, boosted decision trees, SVM, neural network) and must guess which one was used. Tech: Python, Flask, scikit-learn, pandas, TypeScript, React, PostgreSQL
- Linear Regression API: API which can perform and visualize simple OLS linear regressions. Tech: Python, Flask, JavaScript, D3.js, AWS Lambda