

ELIJAH GOODFRIEND

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EXPERIENCE

Nielsen

Lead Data Scientist

April 2017 - present

New York, NY

- Created Python modeling pipeline, including software architecture, integrating with data engineering, and generating client facing reports
- Developed automated model maintenance with Django and Celery, running on Amazon Web Services
- Collaborated with several teams to ensure solutions were accurate, efficient, and appropriate

Insight Data Science

Fellow

January 2017 - March 2017

New York, NY

- Researched online, supervised classification and NLP algorithms for a small banking start up
- Delivered pipeline-ready Python code to predict categories of banking transactions with 90% precision

Lawrence Berkeley National Laboratory

Postdoctoral researcher

October 2014 - August 2016

Berkeley, CA

- Developed fluid mechanics code in C++ climate model, including optimization
- Collaborated in an agile 7 person team using Git and Travis CI

University of California, Berkeley

Graduate researcher

January 2010 - August 2014

Berkeley, CA

- Created algorithm to reduce numerical errors by 30% in Fortran models of urban air contamination
- Analyzed 5 TB of data using Matlab and Python for insights into spurious flow at computational edges
- Published results in 3 journal papers and 7 conference presentations

EDUCATION

University of California, Berkeley

Ph.D. in Environmental Engineering

Designated Emphasis in Computational Science and Engineering

June 2014

Swarthmore College

B.S. in Engineering

B.A. in Mathematics and Statistics

June 2008

PROJECTS

Hunt for Justice

Founded organization to produce puzzle hunt to benefit the Innocence Project

November 2017 - present

American Community Survey analysis

Analyzed census data for predictors of poverty using R: eligoodfriend.com/ACS/extremes/

September 2016 - December 2016

Prison University Project

Tutored groups of 1-5 students in mathematics at San Quentin State Prison

August 2015 - August 2016

SKILLS

Python, Git, Linux, Matlab, Fortran, C++, R