Alexandra Abrahams

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Education

HARVARD UNIVERSITY   Cambridge, MA
A.B., Computer Science Degree.   August 2015 – May 2018
Transferred to Harvard. Majored in Computer Science. Relevant Coursework: CS50, CS51, CS171 Data Visualization, CS20 Discrete Math, CS109A Data Science, CS121 Introduction to Theoretical Computer Science, CS96 Systems Design, CS105 Privacy and Technology. Spent Fall 2016 semester off campus interning on Clinton campaign.

OXFORD UNIVERSITY   Oxford, UK
Studied Philosophy, Politics and Economics (PPE).   October 2013 – June 2015
Focused on economics, including quantitative economics and statistics.

Relevant Experience

PRECISION STRATEGIES   Washington, D.C.
Data Analytics Associate   August 2018 – Present
- Scripted election night reporting programs in Python for key races, scraping data from state websites.
- Engineering Precision's client dashboard web application using AngularJS, Express, and Vega, a D3.js-based visualization library. Project aims to enable non-technical users to create customizable dashboards based on commonly-used visualizations for common data types, such as MailChimp data.
- Automated the writing and running of standard SQL queries using the Civis Analytics API.
- Supported the DNC tech community team with VAN administration, model uploads, and Vertica help.

PRECISION STRATEGIES   Washington, D.C.
Data Analytics Intern   June 2018 – August 2018
- Engineered a new data pipeline for a client. Consolidated 4 separate scripts into 1 faster Python program, translated an R script into Python, implemented new data definitions from the client, and wrote both a 10-page overview memo for a non-technical audience and 10 pages of technical documentation for the client tech team.
- Developed visualization prototypes in Vega, a D3.js-based library, for version 2 of firm's client-facing software.
- Wrote programs in Python for scraping data from the RealClearPolitics, Cook Political Report, and FEC websites and automatically updating Google tracker spreadsheets with new data using the Google Drive API.
- Wrote SQL queries to import data, create lists for communications, and update client reports.

HARVARD COMPUTER SCIENCE DEPARTMENT   Cambridge, MA
CS171 Data Visualization Course Teaching Fellow   September 2017 – December 2017
- Helped to teach Harvard's data visualization course CS171 using the JavaScript library D3.js.
- Graded the problem sets and lab assignments of 15 students each week, and held weekly office hours for students.

HILLARY FOR AMERICA   Brooklyn, NY
Data Analytics Intern (Organizing Analytics Subteam)   August 2016 – November 2016
- Programmed a web scraper in Python to correct ~230 false NC polling location addresses in our database just in time for Election Day, so that they could be displayed on the campaign website.
- Created a Python script to pull RealClearPolitics polling averages from any period into a spreadsheet.
- Wrote programs in Python to wrangle and clean datasets, and SQL queries to pull data.

Skills

Proficient in HTML, CSS, D3.js, SQL and programming in Python and JavaScript. Used AngularJS and Express. Further projects available on www.alexandraabrahams.com.