

# Aaron Pollack

DATA SCIENTIST · SOFTWARE ENGINEER

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## Education

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### University of Michigan

*Ann Arbor, Michigan*

BACHELOR OF SCIENCE: COMPUTER SCIENCE, ECONOMICS

*2013 - 2017*

- Overall GPA: 3.65/4.0
- Coursework in Econometrics, Distributed Databases, Machine Learning, Linear Algebra, Statistics, etc.
- Founder and Director of the Michigan Student Artificial Intelligence Lab

## Technical Skills

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**Proficiency** Python, Java

**Exposure** R, C++, Stata, C#, Javascript, SQL, Jupyter, Git

## Experience

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### Google

*Cambridge, Massachusetts*

SOFTWARE ENGINEER – GOOGLE NEWS

*Jun. 2017 - Present*

- Member of the launch team for *Google News*, an AI powered news application
- Designed and implemented server side applications to handle merchandising in the Google News app, serving content to tens of millions of users globally
- Conducted large scale data analysis on Google News purchase and subscription data to gain insights into user behavior and subscription patterns

### Google

*Cambridge, Massachusetts*

SOFTWARE ENGINEER INTERN – GOOGLE PLAY NEWSSTAND

*May 2016 - Aug. 2016*

- Implemented an application, leveraging Google technologies, to offer real-time insight into social and news media trends
- Designed multi-layered, highly scalable, full-stack system to manage, process, and display incoming data, and integrated the system with existing the Google codebase and tools

### Strategic Reasoning Group – University of Michigan

*Ann Arbor, Michigan*

RESEARCH ASSISTANT

*Sept. 2015 - May 2016*

- Conducted computational simulations utilizing agent based modeling techniques to examine the effects of high frequency trading on financial markets

### TD Ameritrade

*Ann Arbor, Michigan*

APPLICATION DEVELOPMENT INTERN

*May 2015 - Aug. 2015*

- Implemented video streaming features into TDA's flagship product thinkorswim using high throughput, low latency subscription based communication

## Select Technical Projects

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### Examination of Cross-Correlation in Sector Focused ETF's

NUMPY, PANDAS, MATPLOTLIB, SEABORN

- Examined cross-correlations in financial time series to learn the relationship between various industries and the business cycle

### Regression Analysis of Socioeconomic Indicators and Electoral Outcomes

NUMPY, PANDAS, MATPLOTLIB, STATSMODEL

- Used OLS regression models to explore the relationship between socioeconomic indicators and electoral outcomes in the 2016 presidential election

### Sentiment Analysis of Tweets

R, TM, SNOWBALL

- Conducted sentiment analysis of tweets scrapped from Twitter relating to various computer manufacturers

### Text Classification using Supervised Learning Techniques

NUMPY, PANDAS, SCIKIT-LEARN

- Utilized machine learning techniques to classify comments scrapped from reddit.com
- Examined the relationship between comment character length and model performance