## PROFESSIONAL EXPERIENCE

Hawkfish: Data Scientist, Voter Research and Business Intelligence Febr

February 2020 - Present

- Researched, identified, and communicated "red mirage" concept to combat vote-by-mail disinformation
  - o Built election scenario tool, which combined survey data with research on state election procedures, to calculate realistic timelines for the counting of vote-by-mail ballots
  - Conveyed findings to Democratic Party decisionmakers, media organizations, and the public to inoculate against President Trump's attempts to delegitimize the results of the 2020 election
- Visualized second-to-second measurements of viewer sentiment, attention, and emotion for video ad pre-testing and Democratic Primary debates, enabling more accurate ad targeting and content analysis
- Developed dashboards to enable broader organizational access to early voting and ad performance data

# **Cello Capital Management:** Consultant

December 2019 – January 2020

• Refactored Python scripts and SQL stored procedures to achieve an 80% reduction in the loading time for commercial mortgage-backed securities (CMBS) analytics in Power BI

# **Dwight Securities Management:** Associate

June 2017 - October 2019

- Traded and analyzed CMBS issued by federal agencies and enterprises (Ginnie Mae and Fannie Mae)
- Built property valuation and cashflow models in Python and VBA to support traders and assess risk
- Created integrated dashboards for visualizing and searching multifamily and nursing facility datasets

**JOOR:** Data Analyst

**June 2016 – May 2017** 

- Developed histogram of oriented gradients feature descriptors to classify clothing categories in images
- Used k-means clustering of pixels in product photos to produce visualizations of dominant seasonal colors

Morningstar: Data Analyst, Reference Data

July 2015 - May 2016

• Developed Python scripts to map identifiers to derivatives using Bloomberg's Open FIGI API

## **VOLUNTEER EXPERIENCE**

Watchlist on Children and Armed Conflict: Delta.NYC Volunteer October 2016 – November 2016

• Participated in Civic Hall Labs' pro bono program to develop tech solutions for non-profit organizations

**Presevent:** Co-Founder

May 2015 - June 2016

• Scraped location, time, and cost data for over 3,000 campaign events for an Election 2016 iOS app

## **EDUCATION**

**Grinnell College:** B.A. in Political Science with Honors

Class of 2015

- Thesis applying historical development of habeas corpus to extrajudicial detentions at Guantánamo Bay
- Winner of 2015 Baumann Essay Prize for research examining the effective regulation of net neutrality

## TECHNICAL SKILLS

## **Databases**

- DBT
- SQL & NoSQL
- SQLAlchemy

# **Data Analysis**

- Pandas & NumPy
- Tensorflow
- VBA

# **Data Visualization**

- Google Data Studio
- Plotly
- Power BI

# **Web Development**

- D3.is
- Flask & Django
- React