Joe Wlos

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PROFESSIONAL EXPERIENCE

Hawkfish: *Data Scientist, Voter Research and Business Intelligence*   **February 2020 – Present**
- Identified and communicated "Red Mirage" concept to counter disinformation about vote-by-mail and inoculate against President Trump's attempts to delegitimize the results of the 2020 election
  - Built scenario tool–combining state polling, survey data on voting method by candidate choice, and research on state election procedures–to estimate horserace reporting on election night and beyond
  - Conveyed findings to Democratic Party decision makers, media organizations, and the public, resulting in over 2,000 mainstream press reports and 205,000 tweets
- Developed web application for creative teams and marketers to assess second-to-second viewer attention and emotion for political video ads, enabling better ad targeting and content analysis
- Created data pipelines and dashboards for the measurement of digital and television advertising metrics

Cello Capital Management: *Consultant*   **December 2019 – January 2020**
- Refactored Python and SQL 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 a 2016 election 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	Data Analysis	Dashboards	Web Development
DBT	Pandas & NumPy	Google Data Studio	D3.js
SQL & NoSQL	Tensorflow	Plotly & Dash	Flask & Django
SQLAlchemy	VBA	Power BI	React