Joe Wlos

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PROFESSIONAL EXPERIENCE

Hawkfish: *Business Intelligence Engineer*   **February 2020 – Present**
- Startup building state-of-the-art data infrastructure for Democratic Party candidates and causes
- Creating dashboards and data analysis tools for political advertising pre-testing and performance

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 fixed income portfolio risk analytics in Power BI
- Improved logic for estimating prepayment penalty cashflows for Ginnie Mae mortgage-backed securities

Dwight Securities Management: *Associate*   **June 2017 – October 2019**
- Fixed income hedge fund with investments in agency CMBS and multifamily bridge loans
- Built property valuation and cashflow models in Python and VBA to price bonds and assess risk
- Created dashboards for visualizing and searching multifamily and nursing facility datasets
- Used the Python microframework Flask to build a web portal for reviewing underwriting documents

JOOR: *Data Analyst*   **June 2016 – May 2017**
- Developed histogram of oriented gradients feature descriptors to detect clothing categories in images
- Produced visualizations of dominant seasonal colors using k-means clustering of pixels in product photos

Morningstar: *Data Analyst, Reference Data*   **July 2015 – May 2016**
- Developed Python scripts to map identifiers to derivatives using Bloomberg's Open FIGI API
- Automated the retrieval and visualization of sector data for the weekly equity research newsletter

VOLUNTEER EXPERIENCE

Watchlist on Children and Armed Conflict: *Delta.NYC Volunteer*   **November 2016**
- Civic Hall Labs' *pro bono* program to operate and develop tech solutions for public policy 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

SKILLS

Databases	Data Analysis	Data Visualization	Web Development
Amazon DynamoDB	Pandas & NumPy	D3.js	Flask & Django
PostgreSQL	Tensorflow	Dash by Plotly	JavaScript
SQLAlchemy	VBA	Power BI	PHP