

Joe Wlos

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PROFESSIONAL EXPERIENCE

Dwight Securities Management, LLC: *Associate* **June 2017 – October 2019**

- Fixed income hedge fund with investments in agency CMBS and multifamily bridge loans
- Building property valuation and cashflow models in Python and VBA to price bonds and assess risk
- Creating dashboards for visualizing and searching multifamily and nursing facility datasets to identify properties with a high likelihood of mortgage prepayment
- Using 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
- Wrote PHP functions for cleaning name and address data and matching that data to existing records

Morningstar: *Data Analyst, Reference Data* **July 2015 – May 2016**

- Developed Python scripts to map identifiers to derivatives using Bloomberg's Open FIGI API
- Worked with teams in China to write SQL queries for identifying errors and inefficiencies in ETL cycles
- 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
- Accepted into Facebook's 2015 FbStart program, which included mentorship and \$50,000 in benefits

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
- 2012-2013 chair of the Student Publication and Radio Committee, managing a \$200,000 annual budget
- Co-founded the *Grinnell Underground Magazine*, student analytics, and moot court campus groups

SKILLS

Databases

- Amazon DynamoDB
- PostgreSQL
- SQLAlchemy

Data Analysis

- Pandas & NumPy
- Tensorflow
- VBA

Data Visualization

- Dash by Plotly
- D3.js
- Tableau

Web Development

- Flask & Django
- jQuery
- PHP