

# Joe Wlos

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## PROFESSIONAL EXPERIENCE

**Dwight Securities Management, LLC:** *Associate* **June 2017 – Present**

- Fixed income hedge fund with investments in commercial mortgage-backed securities (CMBS) markets
- Building property valuation, cashflow, and risk models in Python and VBA to price CMBS bonds
- 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 sending and receiving loan documents

**JOOR:** *Data Analyst* **June 2016 – May 2017**

- Developed histogram of oriented gradients feature descriptors to detect clothing categories in images
- Wrote programs for cleaning name and address data and matching that data to existing client accounts
- Produced visualizations of dominant seasonal colors using k-means clustering of pixels in product photos
- Measured and segmented gross merchandise volume for internal and external reports

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

- Developed Python scripts for mapping identifiers to derivatives using Bloomberg's Open FIGI API
- Worked with teams in China to write SQL queries for measuring ETL cycle times and identifying errors
- 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**

- Built scrapers to acquire location, time, and cost data for over 3,000 Election 2016 campaign events
- Awarded FbStart program in October 2015, 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-Founder of the Grinnell Underground Magazine and Grinnell Student Analytics campus groups

## SKILLS

### Databases

- Amazon DynamoDB
- Microsoft SQL Server
- PostgreSQL

### Data Analysis

- Pandas & NumPy
- Tensorflow
- VBA

### Data Visualization

- Dash
- D3.js
- Power BI

### Web Development

- Flask
- Django
- jQuery