

# Joseph M. Wlos

593 St. Marks Ave., Brooklyn, NY 11216 ♦ joewlos17@gmail.com ♦ joewlos.com

---

## DATA SCIENCE & ENGINEERING

### **JOOR:** *Data Analyst*

**June 2016 - Present**

- Creating Django API endpoints to fuzzy match client name, address, and email data to active accounts
- Detecting products in images using histogram of oriented gradients feature descriptors and clustering image pixels to provide visualizations of product colors across orders and seasons
- Using CakePHP to bulk update customer code and price data tables through Excel imports
- Developing Excel VBA subroutines for the validation of product names, seasons, and identifiers
- Writing and executing SQL queries for measuring and segmenting gross merchandise volume in reports

### **Morningstar:** *Data Analyst, Reference Data*

**July 2015 - May 2016**

- Developed Python program for mapping identifiers to derivatives through Bloomberg's Open FIGI API
- Coordinated with teams in China and India to write SQL queries to gauge ETL cycle times and run VBA subroutines to identify ETL inefficiencies
- Edited and distributed the weekly equity newsletter, which featured qualitative and quantitative research, and automated the retrieval and visualization of price and sector data in Excel
- Automated the matching process for client-provided variable annuity names to Morningstar's identifiers

## FREELANCE & VOLUNTEERING

### **Watchlist on Children and Armed Conflict:** *Delta.NYC Volunteer*

**November 2016**

- Updated website SEO and created social media graphics as a member of Civic Hall's *pro bono* program

### **Presevent:** *Co-Founder*

**May 2015 - June 2016**

- Built web scraper to acquire location, time, and cost data for over 3,000 presidential campaign events
- Awarded FB Start program in Oct. 2015, which included mentorship and \$50,000 in benefits

### **First Analysis:** *Freelance Equity Research Editor*

**February 2016**

- Edited analyst research on SaaS and pharmaceutical industries for reports to institutional investors

### **Zinkerz:** *Freelance Writer*

**November 2014 - January 2016**

- Wrote 100- to 800-word reading comprehension passages for SAT and ACT prep application

## EDUCATION

### **Grinnell College**

***B.A. in Political Science with Honors***

- Winner of 2015 Baumann Essay Prize for research on the regulation of net neutrality **Class of 2015**
- Thesis outlining history of *habeas corpus* applied to extrajudicial detentions at Guantánamo Bay prison

### **University of Chicago Booth School of Business**

***Summer Business Scholars Program***

- Accounting, Finance, Marketing

**Summer 2014**

## SKILLS

### **Data Science & Analysis**

- Pandas & NumPy
- scikit-learn
- VBA

### **Database Management**

- Microsoft SSMS
- PostgreSQL
- SQLAlchemy

### **Web Frameworks**

- CakePHP
- Django
- Flask