

## PROFESSIONAL EXPERIENCE

### **INTRVL: Partner** **June 2021 – Present**

- Visualized COVID-19 vaccine polling for both an internal and external dashboard, developed in React
  - Built dynamic shareable creative assets (infographics), which update their content to match user selections of geographic and demographic filters on the external dashboard
  - Coordinated with the modeling team to write polling scripts, analyze results, and establish a data pipeline for the county-level modeling output in Google Cloud Platform

### **Hawkfish: Data Scientist, Voter Research and Business Intelligence** **February 2020 – May 2021**

- 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

## 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**

- DBT
- SQL & NoSQL
- SQLAlchemy

### **Data Analysis**

- Pandas & NumPy
- Tensorflow
- VBA

### **Dashboards**

- Google Data Studio
- Plotly & Dash
- Power BI

### **Web Development**

- D3.js
- Flask & Django
- React