

# JACOB SOWDER



## EDUCATION

2018  
|  
2014

### B.A. in Economics

Vassar College

📍 Poughkeepsie, NY

- Applied Statistical Methods & Econometrics focus
- Awarded as a Ford Scholar in the Economics Department
- Served within student government and as a residential mentor



## PROFESSIONAL EXPERIENCE

2019  
|  
2018

### Product Modeling Analyst

GEICO

📍 Washington, D.C.

*Built internal tools for forecasting & segmentation*

- Contributed to code that used a geographical clustering algorithm to adjust customer information and determine behavior
- Built dozens of automated reports, dashboards, and data visualizations using R, SQL, Excel, Python, and BI tools
- Was selected by executives to present department-wide analysis and forecasting that drove million-dollar decisions

2018  
|  
2016

### Research Assistant

Economics Department, Vassar College

📍 Poughkeepsie, NY

*Compiled & analyzed 19th-century railway data*

- Learned new programs quickly, including GIS, to compile an original dataset of railroad construction in United States in the 19th century
- Hired for an extended period due to success on the project



## RECENT HISTORY

2020

### Side Projects & Learning

*Months expanding skills in web development and Python*

- Python Projects (Django Apps, Shiny Apps, API integrations)
- New/open-source R packages (BitBar, AudibleR, ProPublicaR)
- Web Development (Django, HTML/CSS, SASS, static sites)

2019

### Travel & Study Experience

*Traveled & learned for several months*

📍 Various

- Saved up & self-funded a leave of absence
- Pored over the British Industrial Revolution
- Grappled with Yugoslavian breakup & genocide
- Marveled at Classical Greco-Roman feats & undoings

## CONTACT

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## SKILLS

✓ Python, R, SQL

✓ R Shiny, Django/Flask

✓ Excel (Pivots, Vlookups, etc.)

✓ Git/Github, AWS/GCP

Statistical **analysis**, traditional **modeling**, and **machine learning**.

Building **dashboards** with R Shiny, **apps** and **user interfaces** in Django, **web design** in HTML/CSS.

Integrating **APIs**, deploy to both **new and legacy** systems, and generating useful **reports**.



*Route for 3 months of recent independent travel & study*