

# Ben Muirhead

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## Experience

### **Ridgewood Technology Partners, Reston VA**

*Business Intelligence Analyst, COMPASS Analytics Lead*

*May 2017 - Present*

- Designed and built automated ETL (Extract, Transform, Load) system for integrating various government and vendor data sources into a single database using MySQL
- Collaborated with government purchasing and acquisition clients to design and build weekly insight reports
- Built visualizations and reports in Tableau for executives and subject-matter experts

### **Democratic National Committee, Washington DC**

*Aug 2016 - Nov 2016*

*Data Acquisition Associate*

- Developed automated ETL processes and documentation for various list acquisitions
- Designed and built framework for acquisition of nationwide polling place data, including early vote locations
- Rebuilt polling place ETL pipeline, combining data collected by state Voter File Managers with data collected by DNC data acquisitions personnel, and establishing an automated geocoding process with outside vendors
- Successfully worked on tracking, QA, deployment, and monitoring of over 100,000 early vote, dropbox, votecenter, and election day polling places

### **Bernie Sanders for President 2016, Burlington VT**

*Nov 2015 - Jun 2016*

*Targeting and Analytics Manager*

- Built and managed campaign reporting tools, including hosted and procedurally generated reporting for state and national staff, using Tableau and Excel
- Briefed campaign senior staff and state leadership on national targeting strategies, including delegate and resource allocation, delegate pickup opportunities, and regular national delegate projections
- Designed, developed, validated, and deployed the campaign's nationwide candidate support and turnout models
- Developed and managed the campaign's election-day turnout tracking model (VoteTracker), using crowd-sourced precinct turnout reports to project end of day turnout, allowing redeployment of field resources during GOTV
- Managed national and state boiler rooms, including turnout tracking, results tracking, and projections
- Managed relationships, including internal validation and analytics, with outside consulting firms

### **Clarity Campaign Labs, Washington DC**

*May 2014 - May 2015*

*Analyst Fellow*

- Assisted on polling operations, including drafting scripts, programming in-house IVR software, pulling samples, and creating client deliverables
- Prepared campaign-specific reports for local, statewide, and national campaigns summarizing voter file databases
- Designed customized maps and visualizations for survey and modeling reports using QGIS and Tableau
- Created basic propensity scores, including voter turnout models, for analysis using MYSQL and R

### **Clifford Moss, Oakland CA**

*Jun 2012 - Nov 2014*

*Associate*

- Oversaw and implemented website development for local candidates, non-profit operations, and corporate campaigns using the Nation Builder content management and constituent relations systems

**Active security clearance, information available upon request**

## Technology

- BI Software: Tableau
- Frameworks: Proficient in R, Python, and Git; Basic Proficiency in p5.js (JavaScript library), HTML, and CSS
- GIS Software: Quantum GIS (QGIS)
- Python Packages: Pandas, NumPy, scikit-learn
- Databases: Proficient in SQL (incl. DNC Vertica Experience), SAS, SPSS, STATA, VAN and Catalist experience
- Microsoft Office Suite

## Education

### **American University, Washington DC**

*Aug 2011 - May 2015*

Bachelor of Science: Applied Statistics; Bachelor of Arts: Political Science

Honors: American University Dean's Scholarship, Dean's List

Additional Study: American University Campaign Management Institute - January 2015