

Professional History

- 2020 - *Present* – **Associate, Systems and Testing – Kastling Group** – Washington, DC; remote
Analyzed technical and non-technical civic systems for digital and management transformations in engagements with the US House, Office of Legislative Counsel; US House, Office of the Clerk with Xcential; Democracy Fund's BillMap with GovTrack and Xcential.
- planned, analyzed, and engineered functions, relations, and requirements of United States legislative processes, digital platform user behavior, and respective technical architecture and interoperations for the full software development life cycle in an Agile environment
 - developed and maintained continuous integration / deployment pipeline for quality assurance and testing efforts based in Google Cloud, GitHub Actions, Docker, and Python / Selenium / Django
 - developed agglomerative clustering model to describe employee working relationship and attitudes for workload redistribution, process re-engineering, and executive operations planning
 - managed reporting and analytics focusing on sentiment inference and prediction, and operational metrics in DataStudio and Colab / Bokeh
 - developed and implemented employee and user opinion and experience surveying / sampling and relational networking, focus-grouping, and workshopping via Qualtrics and traditional methods
- 2019 - 2020 – **Developer, Intelligence & Operations – PA State House Campaign Committee** – Harrisburg, PA
Directed six- and seven-figure committee and campaign programs, operations, budgets, and staff in the data, analytics, polling, media, field, and political domains for two general-, two primary- and six special-election cycles for nationally targeted caucus
- designed, built, and operationalized committee, campaign and executive-facing ETL pipelines across federal, state, media, and vendor Python / REST APIs and sources with Big Query / PostgreSQL and Ubuntu Server, metrics and benchmarks in Python, and reporting and dashboards in DataStudio and Colab / Bokeh
 - developed data models for demographic, geospatial and temporal domains in the $10^9 \times 10^6$ dimensions, voter targeting and classification in the $10^7 \times 10^5$ dimension with sk-learn, ArcMap / Shapely, and Pandas, UML
 - application / database administrator and engineer for > 2,000 (non-)technical users and executive leadership in the VAN and 20 users in BigQuery environment
 - voter targeting and contact and media operations resulting in up to 16% increase in voting probability
 - developed random forest classifier to mid 80% accuracy scores to measure preference volatility of voters, operational optimizations, prioritizations, and investment methods and models
- 2019 – **Interim Executive Director**
Directed, and managed committee leadership, budget, stakeholders, staff, operations and communications for two special-election cycles.
- 2017 - 2018 – **Director, Political & Operations**
- Summer 2017 – **Consultant, Operations and Logistics – FIRST Global** – Washington, D.C.
Developed and deployed operational and logistic programming in an implementation engagement with the initial annual international robotics competition.
- 2017 Primary Election – **Campaign Manager – Neuman for PA Common Court** – Washington, PA
- 2016 General Election – **Campaign Manager – Snyder for PA State House** – Greene, PA
Designed and managed financial, organizational and operational, communications and media, research and polling, and field strategies for two successful campaigns; a dual-ballot campaign in cross-partisan primary election, and an incumbent-defense campaign overperforming top of ticket in state's top three competitive elections.
- managed staff and consultants, six-figure campaign budget / projects, and resource generation and distribution
 - managed polling / analytics, voter targeting, external and internal communications, paid media (television / mail / digital / radio), and political (rapid-response / debate-prep / endorsements / social) planning
- 2016 Primary Election – **Deputy Organizing Director – Sestak for U.S. Senate** – Delaware, PA
- 2015 General Election – **Organizing Director – Gross for Fairfax Board of Supervisors** – Fairfax, VA
Managed field, organizing, logistics, data and operations for US Senate primary election, and state municipal general election.
- developed and operationalized five-figure impression field program
- Summer 2012 – **Head Coach – Ravensworth Swim and Racquet Club** – Fairfax, VA
Lead competitive strategy and training programs increasing team ranking by two (of seven) divisions

Tools

Analysis

Python (NumPy, scikit-learn, Bokeh, Shapely, NetworkX, Selenium), ArcGIS / ArcMap, (Plant-)UML / SysML / MBSE

Data

SQL (BigQuery, Postgres, MS-, T-, Phoenix), Bash, SSH, REST, TLS / SSL, JSON, XML (USLM), YAML / Markdown, VAN / NGP, Qualtrics, Azure / Google Data Studio

Management

Git, PuTTY, Jira, Asana, Trello, Agile (Scrum, Behavior-Driven), Linux (Ubuntu), Windows, Microsoft Project

Other

vim, L^AT_EX, Google Suite (Docs, Sheets, Slides, API), Adobe (InDesign, Photoshop, Acrobat), LexisNexis, Associate Press / Chicago Style

Other History

2021 – **Board Member – FieldBlue** – Philadelphia, PA

Technical and strategic advice for political technological start-up

2019 - 2020 – **Board Member & Proxy – Project Keystone** – Philadelphia, PA

Assisted in direction, planning, and distribution of seven-figures in polling and research funds through 501c4/527-hybrid consortium focused on legislative races in Pennsylvania

2020 – **Volunteer – Turn Pennsylvania Blue** – Philadelphia, PA

Provided data, targeting, and analytic services to volunteer-driven electoral committee

Winter 2018 – **Volunteer – The OpenElections Project** – Remote

Developed Python module to transform and standardize election files from Pennsylvania to specified structure

Summer 2013 – **Intern – U.S. Commission on Civil Rights, Eastern Regional Office** – Washington, DC

Fall 2012 – **Intern – Virginia House of Delegates, Office of the Minority Leader** – Charlottesville, VA

Teaching History

Field Operations, 2018, 2020 HDCC Candidate and Staff Conference: Reviewed systems and operations for (non-)traditional voter contact operations and strategies.

VAN and MiniVAN Technical Operations, 2018, 2020 Candidate and Staff Conference, 2020 Caucus Conference: Presented on VAN and MiniVAN functionality, and operations.

Political Targeting, 2020 HDCC Candidate and Staff Conference, 2020 Caucus Conference: Reviewed architecture and methods for voter set classification, regression, and prioritization.

Surge Voters & Other Demographics, 2020 Caucus Conference: Reviewed sets of voters of advantage and threat to political interests

Measures & Data, 2018, 2020 HDCC Candidate and Staff Conference: Focused on the key features and performances metrics for state house campaigns and the applied analysis and management thereof.

Projects

Comparative Print Testing Suite: Python-selenium user-interface and regression testing suite with Google Cloud reporting system.

Partisan Variance Score: Analytic and sk-learn classification model evaluating the absolute difference in voters partisan favorability outperforming traditional partisan models by 4-8% in the field.

Field Package: Python package developing field-oriented operational objects and algorithms.

Education History

Non-Degree Seeking – Harrisburg Area Community College, 2019

Coursework: Calculus I

BA; Political Theory – University of Virginia, 2014

Coursework: Epistemology, Symbolic Logic, Classical Theory, Contemporary Thought, Contemporary Ethics, Perspectives on Liberty, Concepts of Law, Political Economy, Microeconomics I, Macroeconomics I, Statistics I, Physics I

BA; Candidate – George Mason University, 2012

NCAA Div. I, Colonial Athletic Association, Swimming and Diving: 2011 Rookie of the Year

###