

Danielle Ahrens

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Upper Michigan

Experience

Senior Software Engineer, The New York Times May 2021 - Present

- Designed and implemented a self-service data library in BigQuery using dbt, enabling a dozen operational teams to define over 1500 audience segments and activate those audience segments across various first and third party targeted messaging services.
- Rebuilt legacy data marts according to a medallion architecture style using dbt and BigQuery.
- Lowered support burden by implementing infrastructure-as-code for data pipelines using Terraform.
- Increased team velocity by implementing a functional local development environment using docker for our legacy data-mart platform.
- Contributed to design planning for an event driven data pipeline, enabling real-time data activation for operational teams.
- Mentored mid-level software and data engineers for faster onboarding of new hires and established and propagated shared norms and best practices after a reorg.

Engineering Lead, Biden for President Jul 2020 - Nov 2020

- Managed a team of 4 engineers, representing half the organization's software engineering staff.
- Technical owner of JoeBiden.com (WordPress) and all microsites (React and Vanilla HTML/JS) produced by the campaign. See <https://danielleahrens.com/projects/campaign/websiteslist.html> for a list of what my team and I built, accessibility best practices used throughout.

Senior Software Engineer, Biden for President May - 2019 - Jul 2020

- Built and maintained the donation data ETL pipeline. The microservice architecture utilized various tools and languages including Python, NodeJS and Groovy running on kubernetes or lambda with Redshift and S3 and Glue.
- Built and maintained a donor vetting service which utilized Python, lambda and S3 to identify thousands of lobbyists and oil/gas executives amongst our millions of donors.
- Built new front-end (React) and backend (Groovy/Ratpack) features for a custom peer-to-peer texting platform capable of sending 10 million texts in a day.

Skills & Tools

Data Engineering: Python, SQL, dbt, Airflow, BigQuery, Redshift, Apache Beam

Backend: Docker & Kubernetes, dynamoDB, Firestore, PubSub, Lambda/Cloud Functions, Flask

Frontend: React, JavaScript HTML/CSS, PHP

Infrastructure: AWS, GCP, Terraform, Vault, DataDog, Grafana/InfluxDB, Drone

Soft: Team leadership, project management, agile methodologies

Previous Experience

2014-2019: Various Chemical and Manufacturing Engineering roles at Boston Scientific & Clarus Medical

Education

B.S. Biomedical Engineering,
Michigan Technological University May 2014