

Dan Bernstein

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Experience

Freelance Data Management Consultant and Software Developer

February 2021-Present

Example: Mid-Atlantic Innocence Project (Washington, DC)

- Implemented new workflow management software across the organization, including integration with existing case management system through bidirectional automated data transfer.
- Developed data collection and document-sharing systems for the first large-scale data collection effort in the Innocence space.

Example: Neighborhood Preservation, Inc. (Memphis, TN)

- Built and scaled internal tools for the Emergency Rental Assistance program to monitor case activity as the program expanded from 5,000 to 100,000 applicants using AWS computing services and Airtable.
- Built databases and implemented integrations and automations to enable staff to save time on manual tasks and add new capabilities, including sending postcards to all tenants facing eviction, automating legal document generation and streamlining communication with landlords and tenants.
- Migrated over three million data points from Google Sheets and Airtable to proprietary CRM system, saving thousands of hours of manual data entry time.
- Developed a automated eviction settlement program that cut settlement times from weeks to less than one day.

Example: Abolitionist Law Center (Pittsburgh, PA)

- Built a Postgres database and populated the database with over 200,000 criminal court records scraped from the Allegheny County Courts website. Analyzed the data using R and SQL for a report on racial disparities in sentencing patterns and probation and to respond to ad hoc data requests from partners for information about individuals currently detained for civil rights litigation.

Software Development Engineer

August 2023-January 2024

Patrick J. McGovern Foundation

Remote

- Provide technical assistance to nonprofits exploring the value of integrating advanced data tools and approaches into their work, including cloud infrastructure, data engineering, data visualization, and data pipelines.
- Develop full-stack web applications serving the collective needs of nonprofits and journalists, including frontend (React, Typescript), API and backend (Postgres, NoSQL, Django), DevOps (Terraform, AWS), and large-language model integrations (ChatGPT, Anthropic).

Data Engineer III

April 2019-August 2023

Legal Services Corporation, Office of Data Governance and Analysis

Washington, DC

- Served as engineering lead in team of three on the Civil Court Data Initiative, an effort to scrape and analyze millions of civil court records from over fifty data sources to provide legal aid providers, policymakers, and media with high-quality court data and insights.
- Developed web-scraping and data lake resources on AWS using various computing services (Lambda, ECS, EC2), orchestration systems (Prefect), Infrastructure as Code (IaC) and Continuous Integration and Continuous Delivery (CI/CD).
- Developed over 25 data-sharing agreements and partnerships with legal aid providers, municipal governments, academic researchers, and journalists to supply them with court records for outreach, advocacy, and research.
- Collaborated with data engineers, data scientists, and research associates to develop well-documented software and trusted datasets to facilitate analysis and dissemination.

Science Policy Fellow

July 2017-April 2019

Science & Technology Policy Institute

Washington, DC

- Designed and conducted mixed methods data collection on research gaps in emerging drinking water contaminants and geothermal energy to inform the development of Federal roadmaps.
- Conducted stakeholder engagement through survey design, facilitated interviews, and committee meetings to support Federal S&T policymaking.

Skills and Certifications

Certifications: Amazon Web Services Certified Developer - Associate (certified in 2019)

Languages: Python, JavaScript, SQL, R, Java, C++

Education

The George Washington University, B.S. Chemistry, *summa cum laude*

2017