

# Dan Bernstein

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## Experience

### Research Analyst II

April 2019-Present

Legal Services Corporation, Office of Data Governance and Analysis

Washington, DC

- Responsible for architecting, implementing, and managing cloud-based infrastructure and ETL pipelines for event-driven data collection, storage, and access for millions of civil court records in a data lake architecture.
- Evaluate options for data processing, storage, and web application hosting to meet various business requirements including real-time dashboards, regular reporting, and ad hoc queries.
- Experience with AWS event-driven and data storage services, including Lambda, SQS, Glue, Athena, ECS, EC2, S3, RDS, CloudFormation, DynamoDB.
- Collaborate in a team of three to develop and manage testing and production environments to manage deployment using Infrastructure as a Service (IaaS) and version-control systems (git).
- Analyze demographic, civil legal aid, and geospatial data to identify patterns in civil legal aid needs and services for low-income individuals and communicate results to legal aid programs and internal stakeholders.

### Co-Founder

August 2019-Present

Safe Lane LLC

Arlington, VA

- Design and build real-time stream processing data pipelines to ingest traffic camera image and video feeds.
- Leverage serverless computing and storage systems to optimize performance and minimize cost.
- Experience with AWS streaming, machine learning, and web application services including Kinesis, SQS, Sagemaker, Cognito, RDS, Athena, Glue.
- Awarded first place in the DC Office of the Chief Technology Officer DCx 2019 competition.

### Science Policy Fellow

July 2017-April 2019

Science & Technology Policy Institute

Washington, DC

- Apply regression and random forest algorithms to survey data in R to evaluate STEM scholarship program
- Automate text extraction from PDF documents to decrease data collection time from two months to one week
- Analyze and visualize geospatial data in R and QGIS to inform Federal programmatic and budgetary decision-making for R&D collaboration
- Design and conduct mixed methods data collection including large-scale surveys, site visits, focus groups, and structured interviews
- Conduct literature reviews and facilitate expert interviews on research gaps in emerging drinking water contaminants and geothermal energy to inform the development of Federal roadmaps

## Education

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

2017

Honors Thesis: *Potential Benefits of Implementing Placebo Controlled Dose Reduction in Psoriasis Treatment*

- Analyzed drug expenditure data from Medical Expenditure Panel Survey (Department of Health and Human Services) in R and SAS to estimate individual and cumulative impact of novel psoriasis treatment regimen
- Foreign experience in United Kingdom (NSF-funded research fellowship), Morocco (intensive advanced Arabic studies), and Ireland (semester abroad)

## Honors and Certifications

Amazon Web Services Certified Developer (Associate)

2019

## Conference Presentations

Bernstein, Dan, & Manjarrez, Carlos. (2020, October). Examining Eviction Disparities in Shelby County presented at Tennessee Supreme Court Access To Justice Evictions Summit (Virtual).

Bernstein, Dan, (2020, May). Getting to CSV: Unlocking Public Data in the Civil Justice Space presented at CSV Conf v5 (Virtual).

Bernstein, Dan, & Manjarrez, Carlos. (2020, March). Developing a Strategy to Use Case-Level Court Data to Improve Advocacy and Support for Self-Represented Litigants at Self-Represented Litigants Network Conference, Nashville TN.