

# ANNA BAILLIEKOVA

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## WORK EXPERIENCE

**Sr. Data Engineer, UrbanFootprint, Remote**  
May 2022-present

**Manager, Data Engineering, Zendesk, Remote**

Sep 2021-May 2022

- Hired & led team of 4, created hiring guide and onboarding materials
- Delivery manager for Finance, Sales, Marketing, and Product domains.
- Worked with product managers to translate business asks into product goals, initiatives, epics and stories.
- Leading transition to use dbt for in-place data transformation

**Senior Data Engineer, Zendesk, Remote**

May 2020-Aug 2021

- Wrote charter and operating model for newly created Data Curation team within Enterprise Data & Analytics
- Wrote standards for ELT and curated data products and a SQL style guide
- Developed egress solution for integration with 3rd party software.
- Worked on GCP stack, strong experience with BQ, Airflow, and K8s.

**Division Operations Analyst, Epic, Madison, Wisconsin**

Jul 2013-May 2020

- Manager of 3, on a team of 10 responsible for development and maintenance of internal data warehouse.
- Managed nightly ETL process; improved uptime and automated parts of data model upgrade process, reducing upgrade-related downtime from a high of 4 days to 2 hours.
- Created new data models and updated existing data models to improve performance, wrote ETL pipelines to consume data from 3rd party APIs.
- Developed reports and dashboards to inform decisions made by VP-level executives in SSRS.
- Developed single page web app in React frontend/ASP.NET core backend for product leads and division managers to manage projects, quality, and personnel.
- Created new tools and process for Software Developer retention, voluntary departures fell by 2.3% in two years.
- Wrote scripts in Puppeteer.JS to generate documents for discovery in legal proceedings and supported legal and finance teams during IRS audit.
- Promoted to Team Lead within 15 months of starting.
- For 4 years, coordinated and project managed “Cool Stuff Ahead” company-wide development futures presentation at annual Users Group Meeting General Session to ~15,000 customer and internal attendees.

**Assistant Analyst, Greenberg Quinlan Rosner Research, Washington, DC**

Jun 2012- Dec 2012

- Performed statistical analysis and developed client-facing visualizations in Tableau.
- Wrote Python scripts to interact with APIs, perform lexical analysis, and process data.
- Expanded capacity through automation and transition to Amazon AWS-based stack with the boto package to ingest Twitter streams in real-time.
- Performance recognized with promotions from Intern to Research Assistant to Assistant Analyst within one month of start.

**Campaign Manager, Matt Flamm for State Representative, Palatine, IL**

Jun 2010-Dec 2010

- Managed all aspects of campaign: field, finance, and press; recruited and supervised paid staff of three, sixteen interns, and dozens of volunteers.
- Wrote field and fundraising plans, created district and precinct maps of prior election results and performed geospatial analysis.
- Outperformed three of four state-wide candidates in the 54<sup>th</sup> district by as much as 5 points.

## SKILLS

- Languages: SQL, Python, C#, Javascript
- Platforms: GCP(BigQuery, GCS, Cloud Functions), AWS(Athena, S3, EMR)
- Tooling: Git, SVN, Kubernetes
- Software: PostgreSQL, BigQuery, Airflow, MS SQL Server stack(SSMS, SSRS, SSIS, SSAS,PowerBI, Excel)

## PUBLICATIONS

Dombrovskaya, Henrietta, Novikov, Boris, and Bailliekova, Anna. **PostgreSQL Query Optimization: The Ultimate**

## VOLUNTEERING/SERVICE

Water Quality Monitor, Milwaukee Riverkeeper	2021-Present
Zendesk Black Freedom Lectures discussion group facilitator	2021
Schools of Hope virtual tutor, Madison Urban League	2020-2021
Campaign volunteer-- too many campaigns to list here, ask me about it	2006-Present

## EDUCATION

**Knox College**, Galesburg, IL, Bachelor of Arts in Political Science cum laude June 2013

*College Honors in Computer Science & Political Science*, 2013, "Inferring public opinion in 140 characters or less"

- Collected six months of Twitter's 1% stream relating to the 2012 presidential elections, and used sentiment analysis trained on MechanicalTurk data to classify tweets as positive or negative. Used time series analysis to compare the resulting measure of public opinion to publicly released polling.

*Pi Sigma Alpha* (2011-2013), national Political Science honor society.

*Lincoln Scholar* (2009-2013), highest academic scholarship award at Knox College.

**University of Wisconsin**, Madison, WI, 2015-2017, additional coursework

- CS354 Machine Organization and Programming, CS540 Introduction to Artificial Intelligence, CS536 Introduction to Programming Languages and Compilers