

EXPERIENCE**Populus**

April 2022 - September 2022

*Interim Engineering Manager - Platform Team**Jul 2022 - Sep 2022*

- Design hiring processes for multiple engineering roles, focusing on clear signals and candidate experience
- Address data pipeline failures in Airflow and improve data pipeline reliability
- Facilitate tactical decision-making and communication on 7-person cross-functional pod
- Advocate for individual reports (2 full-time, 2 contractors) to work on impactful and interesting projects

*Senior Backend Engineer**Apr 2022 - Present*

- Build, document, and evangelize Python application secret management system using Google Secret Manager
- Work with developers who have domain knowledge to design data pipeline monitoring and alerting

EnergyHub

February 2019 - December 2021

*Engineering Manager - Data & Automation; Data & Dispatch**Oct 2020 - Dec 2021*

- Hire 10 engineers, growing a diverse team from 5 to 14 direct reports
- Balance the team's work, accounting for reliability and maintenance concerns as well as new features
- Protect work-life balance of team members by accounting for unplanned work and load-balancing
- Adopt & adapt a lightweight sprint process to make concrete, realistic commitments as a team
- Facilitate context sharing, unblocking development and aligning team on both product and technical levels
- Find opportunities that align individuals' skills and goals with company needs - from technical growth to mentorship and management responsibilities

*Tech Lead - Data & Automation**Jan 2020 - Oct 2020*

- Worked with product management team to prioritize and plan quarterly projects
- Managed end-of-season reporting, ensuring that billing and regulatory requirements were met accurately
- Grew a new team from 1 person to 5 people, shifting responsibilities towards management
- Implemented custom device data backfill and reports in Python and Java

*Senior Software Engineer**Feb 2019 - Jan 2020*

- Added household battery data to 350 KLOC Java Spring application: API integration and adding to UI
- Sped up load baseline generation by 10x by using a representative sample of targeted devices
- Detected & fixed silent data corruption in device data archival, allowing device modeling to be correct
- Managed AWS infrastructure with Ansible and a set of custom Python scripts gluing it together
- Handled production on-call issues - triaging, recovering, debugging, and communicating status
- Supported hiring by interviewing, designing rubrics, and writing onboarding documentation

Recurse Center

September 2018 - December 2018

Participant

- Learn about formal specification of systems using TLA+
- Explore the basic principles of deep learning by writing a simple neural network

Teachers Pay Teachers

February 2016 - August 2018

*Software Engineer - Search, Discovery and Personalization**February 2016 - August 2018*

- Planned and organized work around user profiles and search experience
- Increased transparency & communication around org-wide decisions
- Built collaborative filtering product recommendation service running on Kubernetes
- Ported search page and homepage to Elixir backend & React frontend; taught engineers about Elixir
- Built and productionized ETL system - monitoring, alerting, infrastructure automation, education

Recurse Center

August 2015 - November 2015

Participant

- Wrote a Git clone in Haskell
- Worked on NAND2Tetris: designed a CPU, wrote an assembler, and wrote a compiler

EDUCATION**University of Chicago**

BA: Physics, June 2014