

EXPERIENCE

Lead Data Engineer

Betterment

June 2021 - December 2021

Remote

- Modernized data pipelines, transferred ownership to client teams
- Improved CI & CD processes across data platform
- Addressed incidents, completed tickets during on-call rotations

Senior Staff Engineer, Data Science / Cloud Platform

Everactive, Inc.

March 2019 - May 2021

Ann Arbor, MI

- First Data Science hire at pre-IPO industrial IOT startup
- Improved data quality & availability across cloud platform
- Migrated hundreds of millions of IOT packets to more performant RDBMS
- Technical lead for company-wide API consolidation from four APIs to one
- Adopted strict software contracts & interfaces with other teams
- Led team shift towards event-driven platform architecture
- Wrote python libraries & services for automated analytics & failure detection
- Involved in all stages of hiring pipeline for subsequent Data Science hires

Data Science Engineer

Methods Consultants

March 2016 - February 2019

Ypsilanti, MI

- Lead engineer at boutique data science & statistics consulting firm
- Primary source of programming, engineering, and machine learning expertise
- Architect of cloud infrastructure & strategy for internal and client needs
- Developed a machine learning trading platform for a mid-size hedge fund
- Processed billions of lines of geolocation data to support expert witness testimony
- Wrote job descriptions for, interviewed, and trained new hires
- Contributed technical content to company blog
- Developed and taught a data science workshop to analysts at a large federal institution

Data Analyst

DataLab, University of Michigan School of Social Work

August 2015 - December 2017

Ann Arbor, MI

- Industry consultant for a data-driven social work lab
- Wrote processing code for large, messy, semi-structured administrative data
- Created reusable software tooling used across lab
- Lectured SSW community on source control in data analysis

Business Intelligence Analyst

Barracuda Networks

March 2013 - February 2016

Ann Arbor, MI

- Founder and technical lead of Analytics Department
- Built and managed a large data warehouse to power analyses
- Performed ad-hoc and automated analyses to support operational decisions

SKILLS

Programming and Technology

- Python: pandas, numpy, requests, mypy, pydantic, JupyterLab
- R: tidyverse, Shiny, h2o, Rmarkdown
- Infrastructure: Docker, Kubernetes, Airflow, dbt, Pachyderm
- Databases: PostgreSQL, Timescale, PL/pgSQL, sqitch
- CI/CD: Gitlab, Circle, Github Actions
- AWS: Redshift, Athena, Lambda, ECS, S3, RDS, EC2
- GCP: Compute, Storage, GKE
- Other: git, linux, L^AT_EX

EDUCATION

Michigan Technological University

B.S. in Mathematics, minor in Economics

April 2012

Houghton, MI