

Timothy E. Robert-Fitzgerald

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github.com/Terf



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EDUCATION Oberlin College, Oberlin OH
B.A., dual major in Computer Science and Politics (May 2019)

SKILLS

Languages

TypeScript, Python, R, Go, Java, C, PHP, Scheme

Frontend development

React, React Native, Electron

Databases

SQL (postgresql, Cassandra) and NoSQL (MongoDB, Redis)

DevOps

Docker, AWS (EC2, ECS, CloudWatch, Lambda), Ansible, GitHub Actions, Prometheus, Grafana

Data science

Keras, NumPy, pandas, Dask

EXPERIENCE **Software Engineer at Near-Miss Management** March 2022 - Present
Develop and maintain React apps for an anomaly detection platform, work on an ETL Python processing pipeline, manage CI/CD processes and clusters on AWS.

- Design and implement user interfaces in TypeScript React using Tailwind CSS, Jotai for state management, D3.js for data visualizations; utilize Next.js, tRPC, and Mongoose for APIs
- Automated CI/CD processes, containerized infrastructure and manage deployments with Amazon ECS
- Employ Dask to process time series data, improved performance of pipelines and flexibility of data structures

Research programmer at PennSIVE center

University of Pennsylvania

February 2020 - March 2022

As a programmer working with statisticians, my responsibilities ranged from informatics and data processing to GUI development.

- Co-author on a number of published papers, including first author on an abstract accepted at the ECTRIMS 2021 conference
- Established lab best-practices such as the use of git and datalad
- Developed web apps for data visualization, QC

Web developer at Environmental Dashboard

Oberlin College

May 2016 - February 2020

While at Oberlin worked part-time on web apps for visualizing resource consumption and managed the supporting database and server systems.

PROJECTS

Most code I write is private, but some public code includes:

- GWAS browser for Penn publication (github.com/anbai106/bridgeport, www.cbica.upenn.edu/bridgeport)
- Music archive of an Oberlin professor (github.com/Terf/cathy-meints, catharinameints.com)
- Time series prediction applied to energy usage (github.com/Terf/CSCI374) and the stock market (github.com/Terf/Trader)