

Michael Shyer


Software Engineer

 mshyer  mshyer.dev@gmail.com  New York, NY / Remote

EXPERIENCE

Software Engineer, Creator, Canopy (canopy-framework.github.io/)  01/2023 – present

An open-source, real-time monitoring framework designed specifically for CDNs

- Created a scalable monitoring framework capable of processing, visualizing, and storing terabytes of CDN logs in real-time
- Automated deployment of the pipeline using AWS SDK and Docker Compose
- Built an admin GUI dashboard that monitors the health of a user's pipeline infrastructure (React, TypeScript, Express, Material UI)
- Designed the data model and schema for the storage of CDN logs into a columnar database (ClickHouse)
- Built a CLI to facilitate configuration, deployment, and teardown
- Performed data analysis using ClickHouse's SQL-like query language to create over 30 data visualizations for Canopy's Grafana dashboards
- Authored Canopy's case study: canopy-framework.github.io/case-study 
- Collaborated with a remote team of 4 developers using an agile workflow

Full-Stack Web Developer, open-source 02/2021 – 01/2023

- CDN Load Testing Toolkit: tools used to test CDN performance
 - Request Monster - issues requests at a configurable rate for files located on a remote server (JavaScript)
 - Small SFS - A static file server built with Node.js, Express, and Nginx. Serves thousands of small files
- Request Warehouse - capture and monitor webhooks (Express, Mongo, Node)
- Simple Nutrition Planner - Create meal plans and automatically calculate nutrition data using open-source dataset. (Ruby/Sinatra and Postgres)

Editor, Springer Publishing Company; freelance 01/2017 – 11/2020

- Edited medical and academic textbooks

SKILLS

Back End

Node.js, Express.js, SQL, PostgreSQL, Golang, MongoDB, Ruby, ClickHouse, RESTful APIs, Nginx, Data Structures & Algorithms

Front End

React, JavaScript, TypeScript, Jest, HTML, CSS, jQuery, Tailwind, MUI, Vite, Responsive Design

Tooling

Git/GitHub, Docker, AWS (Lambda, EC2, S3, SDK, CloudFormation, CloudFront), Grafana, DigitalOcean

EDUCATION

Cornell University, B.A. in History 2011 – 2015

GPA 3.82 *Distinction in All Subjects*