


# Michael Shyer


## Software Engineer

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### EXPERIENCE

**Software Engineer, Creator, Canopy** ([canopy-framework.github.io/](https://canopy-framework.github.io/))  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](https://canopy-framework.github.io/case-study) 
- Collaborated with a remote team of 4 developers using an agile workflow

**Full-Stack Web Developer, open-source** 2021 – 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** 2017 – 2020

- Edited medical and academic textbooks

### SKILLS

#### Back End

Node.js, Express, Ruby, Sinatra, Rack, ERB, Go, PostgreSQL, ClickHouse, MongoDB, RESTful APIs, Nginx

#### Front End

JavaScript, TypeScript, React/Redux, Jest, HTML, CSS, jQuery, Tailwind, MUI, Vite

#### Tooling

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

### EDUCATION

**Software Engineering Capstone, Launch School** (<https://launchschool.com/employers>)  2021 – 2023

Multi-year mastery-based software engineering curriculum

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

GPA 3.82 Distinction in All Subjects