

Alexander Riviere

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PROFILE

I'm a full-stack software engineer with a passion for researching problems, crafting elegant solutions and communicating use cases and trade-offs. I've built solutions using JavaScript, Ruby, React.js, HTML/CSS, PostgreSQL, Docker and AWS. Most recently, I built Canopy, an open-source real-time monitoring framework designed specifically for CDNs. [Canopy Case Study](#) | [Presentation](#)

EXPERIENCE

Creator/Software Engineer, Canopy

05/2023 –

Canopy is an open-source real-time monitoring framework designed specifically for CDNs

08/2023

<https://canopy-framework.github.io/>

- Collaborated with a remote team of 4 engineers through all phases of the project including ideation, narrowing scope/defining use case, prototyping and implementation
- Authored a case study on Canopy's design decisions and presented our solution to an audience of 50+
- Created an admin dashboard using Express.js, React.js and Material UI to provide a visual way for users to manage their pipeline, perform health checks and create alerts
- Added an alert service, using the Grafana API, which allowed users to create an alert with one click
- Used Commander.js to build a CLI in order to reduce the number of commands associated with deploying and managing a data pipeline of AWS services from 14 commands to 5
- Reduced the time it took for logs to be visualized from 60 seconds to 10 seconds by combining the roles of AWS Firehose (deliver logs) and Vector (transform/ship logs) into one AWS Lambda function
- Developed a custom AWS Lambda function that split raw CDN logs into fields, transformed the fields into their appropriate data types and inserted the log data into a ClickHouse database
- Automated the Grafana Docker image to provision a data source and custom dashboards so users could start monitoring their CDN instantly
- Designed 3 Grafana dashboards with 32 different panels that visualize CDN log data

Software Engineer, Launch School

10/2021 –

• Attended an 18-month mastery-based education program focused on software engineering fundamentals

04/2023

• Selected Projects:

- RequestWarehouse: RequestBin clone that generates public endpoints and displays webhooks for testing (NGINX, Node.js, Express.js, MongoDB, React.js)
- UShop: E-commerce CRUD app (Node.js, Express.js, MongoDB, React.js)
- WorkItOut: Workout tracker app (Ruby, Sinatra, PostgreSQL, HTML, CSS)

Financial Analyst, Hintz Capital Management

09/2019 –

• Analyzed over 70 stocks and recommended buy/sell transactions for sums up to \$1,000,000

06/2022

Education Volunteer, Peace Corps South Africa

07/2017 –

• Created and managed a reading program that increased English literacy for 151 students

09/2019

SKILLS

Front End

JavaScript, TypeScript (familiarity),
React.js, HTML, CSS, jQuery, Material UI

Backend

Node.js, Express.js, Ruby, Sinatra, Go
(familiarity), PostgreSQL, SQLite,
MongoDB, RESTful APIs

Other

Docker, AWS Services (Kinesis Data
Streams/Firehose, CloudFront, Lambda,
EC2, S3), Git, Grafana

EDUCATION

Pennsylvania State University: Bachelor of Science in Economics

2013 – 2017