

Alex Riviere


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EXPERIENCE

Creator/Software Engineer, Canopy

2023

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

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

- Architected a log data pipeline with a throughput of 30GB of log data per day
- Built a CLI 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
- Designed 3 Grafana dashboards with 32 different panels that visualize CDN log data
- Automated the Grafana Docker image to provision a data source and custom dashboards so users could start monitoring their CDN instantly
- Created an admin dashboard using SQLite, Express and React to provide a visual way for users to manage their pipeline, perform health checks and create alerts
- Added an alert service to the admin dashboard, using the Grafana API, which allowed users to create an alert with one click
- Authored a case study  on Canopy's design decisions and use case
- Collaborated with a remote team of 4 engineers

Software Engineer, Self-Employed

2021 – 2023

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

Financial Analyst, Hintz Capital Management

2019 – 2022

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

Education Volunteer, Peace Corps South Africa

2017 – 2019

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

SKILLS

Front End

JavaScript, React, HTML, CSS, jQuery, Material UI

Backend

Node.js, Express, Ruby, Sinatra, 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