

Jason Ng

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PROFILE

I'm a voracious learner and resilient problem solver with multiple years of experience in the JavaScript and Ruby ecosystems, as well as Docker and Infrastructure-as-Code deployments using AWS. Most recently, I built Canopy [🔗](#), an open-source low-config monitoring framework, designed specifically for CDNs.

EXPERIENCE

Software Engineer, Creator, Canopy, (canopy-framework.github.io) [🔗](#) 04/2023 – present

- Engineered the automatic provisioning of a real-time monitoring pipeline for CDN logs, condensing a 50+ step deployment (CloudFront, Kinesis Data Streams, Lambda, SQS, S3, EC2, ClickHouse, Grafana) into a few simple steps using AWS (CDK, SDK)
- Built an admin GUI dashboard to monitor the health of a user's deployed pipeline infrastructure (Node.js, React, TypeScript, SQLite)
- Reduced buffering latency to a customizable amount (as low as 1 second from 60 seconds) via a custom streaming solution engineered with Lambda
- Implemented a buffer to re-stream and retry failed logs using Lambda and Kinesis Data Streams, as well as a dead-letter queue with SQS to route them to S3 for debugging and compliance purposes
- Containerized Canopy's backend infrastructure (ClickHouse and Grafana) with custom Docker images and orchestrating their communication with Docker-Compose
- Implemented native support for monitoring parallel CloudFront distributions by automating their attachment and detachment to and from the pipeline, while tracking their metadata
- Created a CLI to facilitate configuration, deployment, and teardown of the pipeline
- Collaborated remotely on a team of four software engineers across multiple time zones using an Agile workflow
- Authored a technical case study on Canopy's problem domain, architecture, challenges and design decisions (canopy-framework.github.io [🔗](#))

Software Engineer, Open-Source Contributor 11/2021 – 04/2023

Developed open-source web applications, some highlighted projects include:

- Request Warehouse: a real-time tool for debugging and testing webhooks (Node.js, Express, React, MongoDB, PostgreSQL, WebSockets)
- Done & Done: an interactive to-do list manager (Node.js, Express, SQLite, JavaScript, HTML, CSS)
- My Cookbook: a personal recipe keeper organized by cuisine (Ruby, Sinatra, PostgreSQL, HTML, CSS)

Futures Trader, Self-Employed 2011 – 2021

- Executed split-second decisions for trading index futures, based on technical analysis of volatility chart patterns, order flow, momentum of price movement and market conditions.

SKILLS

Backend

Node.js, Express, Ruby, Sinatra, PostgreSQL, MongoDB, ClickHouse, Jest, WebSockets, RESTful APIs

Frontend

JavaScript, TypeScript, React, Jest, jQuery, HTML, CSS

Cloud

AWS: CDK, SDK, EC2, CloudFront, Kinesis Data Streams, Firehose, S3, SQS, Lambda, IAM, VPC, CloudFormation, ECS; DigitalOcean Droplets; Heroku

Other Technologies

Docker, Git, GitHub, Grafana, Linux, Bash, Nginx, Agile

EDUCATION

Launch School, *Software Engineering & Full-Stack Development* 11/2021 – 04/2023

Baruch College, *B.B.A. Accountancy*