

Nykaela Dodson

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TECHNICAL PROJECTS

Skopos, Co-Creator, Software Engineer

Aug 2022 –

Dec 2022

[skopos-api-monitoring.github.io](https://github.com/nykaeladodson/skopos-api-monitoring) 🌐

Created Skopos, an open-source API monitoring tool designed for testing multi-step API workflows and running multiple tests in parallel.

- Designed, prototyped, and built key features pertaining to the definition, execution, scheduling, and notification components of Skopos for monitoring API tests using TypeScript, GraphQL (Apollo), Prisma, and the AWS CDK (EC2, ECS, ELB, EventBridge, SNS, Lambda, RDS, S3).
- Developed execution of API tests using state machines, enabling testing of multi-step API workflows (TypeScript, XState).
- Built notification functionality for efficient user responses to API failures with Slack, PagerDuty, and email integration (SNS, TypeScript).
- Implemented parallel execution of collections of API tests using multitenant EC2 instances hosting docker containers with ECS, resulting in faster completion of tests and auto-scaling of test execution (TypeScript, XState, Docker, EC2, ECS, ELB).
- Implemented the Skopos frontend GUI leading to an intuitive UI/UX (TypeScript, React).
- Collaborated with a remote team of engineers in multiple time zones during sprints to make key design decisions (Agile Workflow).
- Co-authored and presented a technical case study exploring Skopos.

Additional Open-Source Projects

Feb 2021 –

Aug 2022

- **WireSnoop:** A RequestBin inspired application for receiving and monitoring Webhooks (JavaScript, Express, React, PostgreSQL, MongoDB, Digital Ocean Droplet, Nginx).
- **Contact Manager:** An application to manage contact emails and phone numbers with dynamic filtering (JavaScript, Handlebars, HTML, jQuery).
- **Airline Routes:** An airline route visualizer (React, JavaScript, Heroku).

PROFESSIONAL EXPERIENCE

Registered Nurse

Sep 2020 –

May 2022

Worked as a registered nurse providing care for 4-5 patients per shift with medical/surgical, oncology, and/or hospice needs in an acute care setting.

TECHNICAL SKILLS

Languages

TypeScript, JavaScript, Ruby, Go, SQL, CSS, HTML

Cloud

AWS (EC2, ECS, S3, RDS, SNS, EventBridge, Lambda), Heroku, Digital Ocean (Droplets)

Other Technologies

React, Express, Jest, Docker, PostgreSQL, MongoDB, GraphQL (Apollo), RESTful APIs, Prisma, XState, Git/Github

EDUCATION

Launch School, <https://launchschool.com/employers> 🌐

Feb 2021 –

Dec 2022

A mastery-based program for software engineers.

Creighton University, Bachelors of Science, Nursing

Aug 2019 –

Aug 2020

GPA 3.72

Chapman University, Bachelors of Science, Health Sciences

Aug 2015 –

May 2019

GPA 3.68