Nykaela Dodson

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TECHNICAL PROJECTS

Skopos - Capstone Project   Oct 2022 – Dec 2022
Co-Creator, Software Engineer
skopos-api-monitoring.github.io ↗

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 collections of API tests using Node-based state machines, enabling testing of multi-step API workflows (TypeScript, XState)
- BuiltI notification functionality for efficient user responses to API failures with Slack, PagerDuty, and email integration (SNS, Typescript)
- Created the implementation of 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 front-end 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.

Launch School   Feb 2021 – Aug 2022
Attended a mastery-based software engineering program focused on learning fundamentals. Developed web applications using technologies such as Javascript, Node, PostgreSQL, Ruby, HTML, CSS and React.

Selected Projects:
- WireSnoop: A RequestBin inspired application for receiving WebHooks (JavaScript, Node, Express, PostgreSQL, MongoDB, DigitalOcean Droplet, Nginx)
- Contact Manager: An application to manage contact emails and phone numbers with dynamic filtering (JavaScript, HTML, CSS)
- Airline Routes: An airline route visualizer (React, JavaScript, Node)

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

Back end	Front end	Other
TypeScript, Node.js, Express, Ruby, Go, PostgreSQL, MongoDB, GraphQL, Prisma, Apollo, RESTful APIs	Javascript, React, HTML, CSS, jQuery	AWS Services (EC2, ECS, S3, RDS, SNS, EventBridge, Lambda), Heroku, DigitalOcean, Docker, Git/GitHub

EDUCATION

Creighton University   Aug 2019 – Aug 2020
Bachelors of Science, Nursing

Chapman University   Aug 2015 – May 2019
Bachelors of Science, Health Sciences