

# Nykaela Dodson

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in <https://www.linkedin.com/in/nykaela-dodson-057146110/>    🌐 <https://github.com/nykaeladodson>

## TECHNICAL PROJECTS

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### Skopos - Capstone Project

Oct 2022 – Dec 2022

Co-Creator, Software Engineer

[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 functionality for 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.js, PostgreSQL, Ruby, HTML, CSS and React.

Selected Projects:

- WireSnoop: A RequestBin inspired application for receiving and monitoring Webhooks (JavaScript, Express, React, PostgreSQL, MongoDB, DigitalOcean 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

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### 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

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#### Back end

TypeScript, Node.js, Express, Ruby, Go, PostgreSQL, MongoDB, GraphQL, Prisma, Apollo, RESTful APIs

#### Front end

Javascript, React, HTML, CSS, jQuery

#### Other

AWS Services (EC2, ECS, S3, RDS, SNS, EventBridge, Lambda), Heroku, DigitalOcean, Docker, Git/GitHub

## EDUCATION

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### Creighton University

Aug 2019 – Aug 2020

Bachelors of Science, Nursing

### Chapman University

Aug 2015 – May 2019

Bachelors of Science, Health Sciences