Gagan Sapkota

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🚨 TECHNICAL PROJECTS

Capstone Project - Skopos *⊘ https://skopos-api-monitoring.github.io/*

Sep 2022 - Dec 2022

Co-Creator, Software Engineer

Architected the design and deployment of Skopos, an open-source API monitoring tool for testing multi-step API workflows in sequence and independent workflows in parallel, using AWS services including S3, ECS, EC2, Event Bridge, Lambda, and SNS.

- · Designed the data model normalized to 3NF and implemented the schema with Prisma for efficient data migrations. (Typescript, Prisma, PostgreSQL)
- · Developed and unit-tested the core logic for testing multi-step API workflows and implemented the state machine for validating assertions. (Node.Js, Xstate)
- Containerized application to execute tests in parallel by horizontally scaling the application using AWS load balancer. (Docker, ECS, EC2)
- Automated cloud deployment to create and configure 11 constructs on AWS using Cloud Development Kit infrastructure as code (VPC, ECS, EC2, Load Balancer, RDS, EventBridge, SNS, Lambda).
- · Engineered the scheduling functionality using Event Bridge to integrate with and decouple from the backend logic. (SDK, EventBridge, Lambda)
- · Contributed to the creation of UI by crafting GraphQL queries and custom react hooks. (GraphQL, React)
- Authored and presented a comprehensive case study \mathscr{O} on the design decisions encountered while creating Skopos and the problems it solves.

Launch School Mar 2021 - Dec 2022

Attended a mastery-based online program focused on software engineering fundamentals and developed various open-source web-applications with technologies such as Node.js, Ruby, PostgreSQL, JavaScript, React.

- · WireSnoop: A RequestBin clone designed for receiving and debugging webhooks. Built with Nginx, Node.js, PostgreSQL, MongoDB, React.
- Todo App: A CRUD style todo-tracker. Built for scalability using a database adapter pattern. Built with Ruby, Sinatra, and PostgreSQL

⊗ SKILLS

Backend

Node.js, TypeScript, Ruby, Python, PostgreSQL, MongoDB, Prisma, GraphQL

Frontend

JavaScript, React/Redux, HTML/CSS, GraphQL, JQuery

Tooling

Git/Github, Docker, Heroku, DigitalOcean, AWS Services (ECS, EC2, Event Bridge, SNS)

■ PROFESSIONAL EXPERIENCE

Philosophy Instructor

University of Colorado, Boulder

Jan 2017 - May 2021

- Designed and taught multiple courses in philosophy.

EDUCATION

Software Engineering, Launch School

Mar 2021 - Sep 2022

PhD in Philosophy, University of Colorado, Boulder

Sep 2016 - May 2022

MA in Philosophy, Georgia State University

Sep 2013 - May 2016

BS in Maths and Philosophy, Saint Peter's University

Sep 2008 - May 2012