# Gagan Sapkota

✉ gagan.sapkota@proton.me   📍 Fremont, California   ⊙ github.com/aham-oudeis

⚘ TECHNICAL PROJECTS

Co-Creater, Software Enginner   Sep 2022 – Dec 2022

Skopos 🔗 *(https://skopos-api-monitoring.github.io/): An open-source API monitoring tool for testing multi-step API workflows in sequence and independent workflows in parallel.*

Architected the design and deployment of a fault-tolerant API monitoring tool, 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 🔗 on the design decisions encountered while creating Skopos and the problems it solves.

Software Enginner   Sep 2022 – Sep 2022

Developed various open-source web-applications with technologies such as Node, Ruby, PostgreSQL, Javascript, React.

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

⊙ SKILLS

Backend	**Frontend**	**Tooling**
Node.js, Typescript, Ruby, Python, PostgreSQL, MongoDb, Prisma, GraphQL, RESTful APIs	Javascript, React/Redux, HTML/CSS, GraphQL, JQuery	Git/Github, Docker, Heroku, DigitalOcean, AWS Services (ECS, EC2, Event Bridge, SNS)

💼 PROFESSIONAL EXPERIENCE

Philosophy Instructor   Jan 2017 – May 2021

University of Colorado, Boulder

- Designed and taught multiple courses in philosophy.

🎓 EDUCATION

Software Engineering, *Launch School*   Mar 2021 – Sep 2022

Ph.D 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