

Samantha Lipari

Software Engineer

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Experience

Co-Creator, Software Engineer, *Sentinel*, sentinel-paas.github.io

Jan 2022 – Apr 2022

Sentinel is an open source, cloud-agnostic, self-hosted platform as a service that can easily deploy and manage multiple database-backed applications, with built in support for upgrading applications via canary deployments.

- Designed and created custom command line interface using oclif for user interactions with Control Plane
- Created cloud infrastructure using Terraform and Ansible, including Control Plane and servers to host deployed applications
- Implemented a multi-tenant architecture by using Docker containers and Docker in Swarm Mode for container orchestration
- Used Traefik for external request routing to applications, configured to implement traffic splitting for canary deployments and sticky sessions
- Applied Docker's service discovery feature to handle networking issues
- Configured monitoring tools: Prometheus, Grafana and Node Exporter, to allow users to easily determine the health of canary deployments and make decisions about promotion or rollback
- Co-author of comprehensive case study about Sentinel

Full Stack Developer, *Self-employed*

Nov 2020 – Mar 2022

- RequestBin: A database-backed application for receiving and debugging webhooks (Node.js, PostgreSQL)
- Trello-Clone: Collaboration app (MongoDB, Node.js/Express, React/Redux)
- The Shop: A database-backed application for online shopping experience (MongoDB, Node.js/Express, React/Redux)
- Dijkstra's Trip: Airline routing application leveraging Dijkstra's algorithm to find the shortest path (Node.js, React)

Project Analyst, *American Express Global Business Travel*

2016 – 2020

- Assisted in creation of the Operational Excellence compliance program and was responsible for auditing meetings across multiple pharmaceutical clients

Meeting Manager, *BCD Meetings & Events*

2015 – 2016

- Responsible for budgeting, program development, execution and all of it's components for high level ELT programs and HCP meetings

Meeting Coordinator, *Maritz Travel Company*

2013 – 2015

- Managed all contracting, attendee registration and travel for HCP meetings

Skills

Languages

JavaScript, TypeScript, Go

Back end

Node.js, PostgreSQL, MongoDB, RESTful APIs

Front end

React/Redux, HTML, CSS, jQuery

Other

Docker, Terraform, Ansible, AWS Services (EC2), Git/Github

Education

Software Engineer Core Curriculum & Capstone Cohort 2201, *Launch School*

2020 – 2022

Bachelor of Arts in Communication, *Rutgers University*

2008 – 2011