

# Samantha Lipari

## Software Engineer

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### Experience

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#### **Co-Creator, Software Engineer, Sentinel, [sentinel-paas.github.io](https://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 allow for traffic splitting and sticky sessions in order to implement canary deployment functionality
- Applied Docker networking tools to handle service discovery 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-authored a 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)
- Cello: A Kanban style collaboration app (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

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#### **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

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

2020 – 2022

**Bachelor of Arts in Communication, Rutgers University**

2008 – 2011