

# Samantha Lipari

## Software Engineer

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### Profile

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I'm a software engineer who enjoys learning new things, problem solving and collaborating with a team. I have experience in JavaScript/Node.js, PostgreSQL, MongoDB, AWS, Docker and React/Redux.

### 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
- 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, MongoDB)
- 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