Carolina Avila

Software Engineer

□ Carolina@carolinaavila.dev
○ New York, NY
□ carolinaavila.dev
□ □ carolinaavi

Technical Experience

Creator; Software Engineer, *Firefly* □

09/2022 - 12/2022

Firefly is an open-source observability framework, providing a comprehensive overview of serverless function health through the use of metrics and traces.

- Prototyped and built Firefly using Node.js, OpenTelemetry and Amazon Web Services (Lambda, Metric Stream, Firehose, S3,IAM).
- Created a CLI to automatically instrument Lambda functions and setup AWS infrastructure; published as an NPM package.
- Automated AWS infrastructure setup and teardown through the use of the AWS SDK and Terraform.
- Engineered middleware to handle context propagation for asynchronous, event-based Lambda invocations.
- Built a custom OpenTelemetry collector to receive metric and trace data from different sources.
- Architected telemetry pipeline which utilised OpenTelemetry, Promscale (timeseries database), and Grafana.
- Reduced telemetry pipeline set up to a two-step process using Docker (images, network, docker-compose).
- Designed Grafana dashboards to display serverless function telemetry data using SQL queries.
- Collaborated with a remote team of 4 engineers across 3 countries using agile workflow.
- Authored technical case study (https://try-firefly.github.io/case_study ☑)

Software Engineer

08/2020 - 12/2022

Created open-source applications using the following technologies: Ruby, Sinatra, JavaScript, Node.js, Express, React, Golang, MongoDB, PostgreSQL, HTML and CSS.

- Built numerous back-end, front-end, and full-stack apps including:
- Gouda Request: Requestbin clone for viewing web hooks built with Node.js, Express, Handlebars, Ngrok, PostgreSQL.
- Todo List: Simple todo list tracker application built with Ruby, Sinatra, ERB, PostgreSQL and Heroku.
- ShoppingCart: a database-backed e-commerce app built with React, MongoDB, Node.js, HTML, Docker).

Skills

Back end

Node.js, Express, Ruby, Sinatra, Go, PostgreSQL,

MongoDB, RESTful APIs

Front End

JavaScript, React, jQuery,

HTML/CSS

Tooling

Digital Ocean, Docker, Git/Github, OpenTelemetry, Terraform, Grafana,

Heroku, Nginx, Bash

AWS Services

Lambda, CloudWatch, Kinesis,IAM, S3, API Gateway, SOS, SNS, EC2

Professional Experience

Professional Ballroom Dancer, Self-employed

2010 - 2020

Education

Launch School ☑ 2020 – 2022

Mastery-based school for full stack software engineering

B.A., Fashion Design & Textiles, Queens College, City University of New York

2019 – 2020

A.A., Liberal Arts, Borough of Manhattan Community College

2011 - 2013