

William Yennie

Software Engineer

🖱 willyennie.com ✉ wryennie@gmail.com 📍 Sag Harbor, NY

TECHNICAL EXPERIENCE

Creator; Software Engineer, Firefly [🔗](#)

October 2022 – December 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 to emit metrics from CloudWatch; 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 in traces 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 on Firefly's development and use case

Software Engineer, Self Employed

March 2021 – January 2023

- Attended Long-term mastery based education program focused on the fundamentals of programming
- Created open-source applications using various technologies;
 - Gouda Request: A RequestBin clone for viewing web hooks. (Node.js, Express, Handlebars, Ngrok, PostgreSQL)
 - Airline Routes: Tracks flight paths from airport to airport. (React, Node.js, Express, MongoDB)
 - Todo List: Simple todo-list tracker application. (Ruby, Sinatra, ERB)

SKILLS

Back End

Node.js, Express, Ruby,
Sinatra, GO, PostgreSQL,
MongoDB, RESTful APIs

Front End

JavaScript, React,
HTML/CSS, jQuery

Tooling

Digital Ocean, Docker,
Git/GitHub, Linux, Bash,
OpenTelemetry,
Terraform, Grafana,
Nginx

AWS Services

Lambda, Cloudwatch,
Kinesis, IAM, S3, API
Gateway, SQS, SNS, EC2

EDUCATION

Launch School, Software Engineering

March 2021 – January 2023

Long-term mastery based education program focused on the fundamentals of programming