William Yennie

Software Engineer

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TECHNICAL EXPERIENCE

Creator; Software Engineer, *Firefly* ⧉   October 2022 – December 2022

Firefly is an open-source observability framework, providing an 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.
- 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)

NON-TECHNICAL EXPERIENCE

Animal Care, *Animal Rescue Fund of the Hamptons*   2014 – 2022
- Helped save the lives of over 6000 dogs and cats

Freelance Photographer/Video Editor, *Self Employed*   2017 – 2021
- Shot pet portraits for families and rescue animals
- Edited music videos and live events

Sanitation Supervisor, *The Beacon*   2011 – 2013
- Ensured restaurant and staff followed state sanitation protocols

SKILLS

Back End	Front End	Tooling	AWS Services
Node.js, Express, Ruby, Sinatra, GO, PostreSQL, MongoDB, RESTful APIs	JavaScript, React, HTML/CSS, jQuery	Digital Ocean, Docker, Git/GitHub, Linux, Bash, OpenTelemetry, Terraform, Grafana, Nginx	Lambda, Cloudwatch, Kinesis, IAM, S3, API Gateway, SQS, SNS, EC2

EDUCATION

Launch School, *Software Engineering*   2021 – 2023
Mastery based education program for Software Engineers: https://launchschool.com/employers ⧉

Suffolk County Community College, *Business Administration*   2008 – 2010