

Marcus Sinkinson

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🌐 Sinkinson

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Experience

Creator, Software Engineer, Firefly

2023 – present

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 AWS (Lambda, Metric Stream, Firehose, S3, IAM).
- Created a CLI to automatically instrument Lambda functions and setup AWS infrastructure; published on NPM.
- Automated AWS infrastructure setup and teardown through the use of the AWS SDK and Terraform.
- Engineered middleware to solve context propagation 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 db), and Grafana.
- Reduced telemetry pipeline setup 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: try-firefly.github.io [🔗](#)

Full Stack Developer, Self Employed

2021 – 2023

- Hook inspect: A database-backed application for receiving and debugging webhooks (Node.js, PostgreSQL, MongoDB, Handlebars, Ngrok, Express).
- EcomCart: A database-backed e-commerce application (React, Node.js, Express, MongoDB).
- AtomTask: Personal task management application (Ruby, Sinatra, PostgreSQL).
- Contact Manager: CRUD app for storing and filtering contacts (Node.js, Express, PostgreSQL).

Mariner, Expedition Vessels

2018 – 2021

- Ship officer handling operational requirements for vessels circumnavigating the globe.

Co-Founder, Flovio

2017 – 2018

- TurboTax for Mariners—brought archaic tax filing process online.
- Designed and developed platform. Onboarded over 100 users.

Business Development, Envestnet Yodlee

2016 – 2017

- Expanded UK customer base by 24%. Company MVP Q1 2017.
- Exceeded 2016 target by 30% and 2017 target by 75%.

Education

Officer of the Watch, Maritime and Coastguard Agency

2012 – 2015

Naval Science, Plymouth University

2013 – 2015

Skills

Languages

JavaScript, Go, Ruby,
SQL,
HTML, CSS

Frameworks

Express, React,
Handlebars,
jQuery, Sinatra

Technologies

Node.js, Git/GitHub,
Docker, PostgreSQL,
MongoDB,
OpenTelemetry, Grafana,
HTTP, REST APIs, Linux

Cloud

AWS (Lambda, EC2, SDK,
CloudWatch, IAM, S3),
DigitalOcean