



# Marcus Sinkinson

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 marcused.com

 Sinkinson

 Amsterdam, NL

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## Experience

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### Creator, Software Engineer, Firefly

08/2022 – 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.
- 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](https://try-firefly.github.io) 

### Full Stack Developer, Self Employed

2021 – 2022

- 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%.

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## Education

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### Officer of the Watch, Maritime and Coastguard Agency

2012 – 2015

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## Skills

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#### 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