

Richard Wyn Morris

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🔗 <https://github.com/richwynmorris>

Summary

I'm a full-stack software engineer with an innate drive to understand and solve problems. I've built, designed, and solved using the Ruby, JavaScript, and GoLang ecosystems and I'm passionate about writing clean, efficient code for scalable distributed systems. I recently created Horus, an open-source observability solution.

Skills

Backend (Node.js, Express, Ruby, PostgreSQL, MongoDB, RESTful APIs, GoLang)

Frontend (JavaScript (ES6), React/Redux, HTML/CSS, Next.js)

Tooling (Git/GitHub, Docker, Linux, OpenTelemetry, Grafana, DigitalOcean, Heroku, AWS EC2)

Professional Experience

2021 – present

Creator, Software Engineer, Horus 📁

- Created Horus, an open-source observability solution for distributed applications
- Created telemetry data pipeline: generating (OpenTelemetry), processing (Express), storing (TimescaleDB), and visualizing (Next.js) metrics and traces
- Led front-end user interface development and implementation
- Prototyped alternative infrastructures using Grafana, Jaeger, Zipkin, and Elasticsearch
- Led the development of Horus Agent: an NPM package that abstracts the work of using OpenTelemetry SDKs to instrument and export metrics and traces to Horus
- Optimized for higher requests per second using OpenTelemetry queues and batching
- Designed and load tested with artillery.io, front-end tested with Jest
- Tested Horus infrastructure locally and in a distributed microservice architecture hosted across multiple DigitalOcean VPS
- Automated deployment using Docker (network, images, docker-compose)
- Authored Horus' case study: <https://tryhorus.com/case-study> 📄
- Collaborated with a remote team of 4 engineers across 3 timezones using agile workflow

2019 – 2021

Software Engineer, Self-employed

Projects & technologies used during this time:

- RequestBin.site - a real-time application for receiving & debugging webhooks (Socket.io, Nginx, Redis, DigitalOcean Droplet, PM2)
- Ello-Trello - a Trello-like collaboration app (MongoDB, Express, Node.js, React, Redux)
- Shopping Cart - a database-backed e-commerce app (React, Redux, MongoDB, Node.js)
- Tasker - a responsive task management application (Node.js, Express, JavaScript, JQuery, Handlebars.js, HTML, and CSS)
- Contact Manager - A CRUD app for storing and filtering contacts (Node.js, Express, PostgreSQL, JavaScript).

2013 – 2020

Taught KS3, GCSE, and A-level English at various UK secondary schools. Held leadership and management positions during this time.

Education

2019 – 2021

Software Engineering and Full Stack Development, Launch School

2012 – 2013

Post Graduate Certificate in Education, Aberystwyth University