

Richard Wyn Morris

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🌐 <https://github.com/richwynmorris>

Skills

Languages (Go, Typescript, Ruby)

Databases (DynamoDB, MongoDB, PostgreSQL, MySQL)

AWS Serverless Technologies (ECR, ECS, EC2, EKS, Lambda, SQS, Batch)

Tooling (Docker, Kubernetes, Terraform, Git/GitHub, Github Actions, OpenTelemetry, Grafana, Sentry, Jaeger, Prometheus)

Professional Experience

2022 – present

Backend Software Engineer, Popsa 📄

- **Technologies** - Go, AWS, Terraform, Kubernetes, Docker, Github Actions, Protobuf, gRPC.
- **Application Development** - print sharing, personalised calendar events, facial recognition, dynamic themes, event reminders, contacts integration, dynamic in-app promotions.
- **Third Party Integrations** - Stripe, Bloomreach, Mixpanel, Lokalise.
- **Responsibilities** - feature development and testing, code review and quality assurance, cloud architecture design, proposal and implementation, on-call duties and system monitoring, assisting customer support team with user-facing issues, supporting marketing team with promotional campaigns.
- **Notable Achievements** reduced latency in Transaction service by an average of 70%, migrated stripe customers to country specific accounts saving \$70,000K per year, designed & contributed to 3 new services, designed, contributed and led on 15 significant in-app features, migrated existing services from using Micro to gRPC, increased testing coverage substantially of existing code base, led Bloomreach integration and created developer toolkit.

2021 – 2022

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 visualising (Next.js) metrics and traces
- Led front-end user interface development and implementation
- 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
- Optimised for higher requests per second using OpenTelemetry queues and batching
- Designed and load tested with artillery.io, front-end tested with Jest
- Automated deployment using Docker (network, images, docker-compose)
- Authored Horus' case study: <https://tryhorus.com/case-study>

2019 – 2021

Software Engineer, Self-employed

Projects & technologies used during this time:

- Go Bank - A backend API for a banking application (Go, Gin, PostgreSQL, Redis, gRPC, AWS, K8s)
- MovieDB - A backend API for querying film facts and trivia (Go, Httprouter, PostgreSQL, Go-mail)
- RequestBin.site - a real-time application for receiving & debugging webhooks (Socket.io, Nginx, Redis, DigitalOcean VPS)

2013 – 2020

Teacher of 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