

Mykolas Viningas

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Profile

I am a full-stack software engineer with multiple years of experience designing, building, and solving in the Ruby, JavaScript, and Go ecosystems. Most recently, I co-created Symphony [↗](#), an open-source framework that provides real-time collaboration functionality and ready-to-scale infrastructure to web applications.

Professional Experience

Creator, Software Engineer, Symphony ([symphony-framework.github.io](#)) [↗](#) 2023 – present

- Designed and created Symphony, an open-source real-time collaboration framework
- Prototyped and built a WebSocket server using Node.js and AWS services including S3, RDS for PostgreSQL, ElastiCache for Redis and DynamoDB
- Deployed iterations of the prototype infrastructure on AWS (EC2, ECS, Fargate)
- Built an NPM package for a client library that connects to the WebSocket server
- Wrote a RESTful API for accessing server metadata
- Created a dashboard interface to display static and live metric data using Remix, React, and Tailwind. Live metrics delivered using Server-Sent Events (SSEs)
- Developed a custom load-testing solution for the WebSocket server
- Engineered a Redis pub/sub solution to horizontally scale WebSocket servers and increase system capacity by more than 40x
- Automated the infrastructure deployment using AWS Cloud Development Kit via a custom CLI tool
- Prioritized scalability, fault tolerance, and separation of concerns when engineering solutions
- Authored Symphony's case study: [symphony-framework.github.io](#)
- Collaborated as part of a remote team of 4 engineers across 2 timezones using agile workflow

Software Engineer, Self-employed 2019 – 2022

Some of the projects and technologies used during this time:

- Terminal - a real-time application for receiving and debugging webhooks (Next.js/React, TypeScript, ChakraUI, Node.js, Express, PostgreSQL, MongoDB, WebSockets)
- Todos - a database-backed todo tracker application (Ruby, Sinatra, PostgreSQL, JavaScript, jQuery, HTML, CSS)
- Contacts - a single page contact manager application with Model-View-Controller structure on the front-end (Node.js, Express, JavaScript, Handlebars, HTML, CSS)

Skills

Back end

Node.js, Express, Ruby, Sinatra, Go, PostgreSQL, MongoDB, RESTful APIs

Tooling

Git/GitHub, Docker, Linux, Bash

Front end

JavaScript, TypeScript, jQuery, React/Redux, Next.js, HTML, CSS

Cloud

AWS, Digital Ocean, Heroku

Education

Launch School [↗](#) 2019 – 2022

A mastery-based study of Software Engineering fundamentals

Royal Academy of Music, University of London, Bachelor's degree, Jazz/Jazz studies 2013 – 2017