Mykolas Viningas

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PROFESSIONAL EXPERIENCE

Software Engineer, *Smartsheet* ⧉   08/2023 – present | London, UK/remote
An enterprise work management platform
- Executed a service set-up, deployment, and release in a new region/environment which resulted in unblocking other teams (internal clients of the service), and accelerating project timelines (AWS, Terraform)
- Improved visibility into service health by implementing user canaries (Go, AWS, Terraform, Datadog)
- Maintained service stability and availability by providing on-call support, debugging, and resolving production issues
- Implemented and improved existing CI/CD pipelines (code testing, deployments, scheduled infrastructure patching, environment-specific jobs)
- Contributed to designing and building a new service from scratch (Go, AWS, Terraform, Datadog)
- Improved visibility into service health by implementing user canaries (Go, AWS, Terraform)
- Enhanced the team's responsiveness to critical issues by creating system alerts and improving existing monitors (AWS, Datadog)
- Maintained high standards for code quality and maintainability by actively participating in code reviews
- Contributed to engineering decisions by creating and participating in engineering/design reviews
- Collaborated with cross-functional teams to propose and design solutions that addressed the needs of multiple teams during system migrations

Creator, Software Engineer,   01/2023 – 07/2023 | remote
Symphony (symphony-framework.github.io) ⧉
An open-source real-time collaboration framework
- Researched and decided on the components to be provisioned, including real-time infrastructure and state convergence
- Implemented preservation of shared application state (document) by checkpointing and storing the documents in binary form to object storage (AWS S3)
- Designed the schema for a PostgreSQL database (AWS RDS) and implemented persistence of server metadata
- Simplified the monitoring and debugging of the system by building a dashboard interface that provides metric data about connections and documents (React, TypeScript, Tailwind)
- Wrote a RESTful API (Node.js/Express) for delivering server metadata to the dashboard client, including live metrics (SSE)
- Created an API and built an NPM package for a client library (JavaScript) that connects to the WebSocket server
- Abstracted away the backend management by containerizing (Docker, AWS ECR) and moving the architecture from AWS EC2 to AWS ECS deployed in Fargate mode
- Separated concerns by decoupling the backend into individual services for Dashboard and WebSocket clients
- Provided a single point of entry to different services and traffic routing to individual instances of the WebSocket server by configuring an application load balancer (AWS ALB)
- Engineered a custom load-testing solution (AWS EC2, Docker) to extract the performance metrics of the WebSocket server and identify the bottlenecks under as close to real-life conditions as possible
- Increased the number of concurrently connected clients handled by the WebSocket service from 240 to 10,000 (40x) by horizontally scaling the WebSocket server using publisher/subscriber model (AWS ElastiCache for Redis) and allowing server-to-server querying for application state (AWS DynamoDB)
- Contributed to building a CLI application that uses the AWS CDK and SDK libraries to automate infrastructure deployment
- 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

SKILLS

Back end
Node.js, Express, Ruby, Sinatra, Go, MySQL, NoSQL, RESTful APIs

Front end
JavaScript, TypeScript, React, jQuery, HTML, CSS

Tooling
Git/GitHub, GitLab, Docker, Linux, Bash, Nginx

Cloud
AWS, DigitalOcean Droplets, Heroku

EDUCATION

Launch School ⧉   2019 – 2022
A mastery-based study of Software Engineering fundamentals

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