

Iuliu Pop

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PROFILE

A full-stack software engineer that overflows with curiosity and loves solving challenging problems. I've designed and built solutions using the JavaScript, Ruby and Golang ecosystems. I recently created Hypha (hyphaobservability.com ↗), an open-source observability tool for distributed systems. It deploys on AWS an end-to-end telemetry pipeline that correlates logs & traces.

PROFESSIONAL EXPERIENCE

- 2022 – 2022 **Co-creator, Software Engineer, Hypha** ↗
- Created Hypha, which makes debugging distributed systems easier by correlating logs and traces in a single tool
 - Built a telemetry data pipeline for generating (OpenTelemetry), processing (OTel Collector, Jaeger, Loki), storing (Elasticsearch & MinIO), and visualizing (Grafana) logs and traces
 - Led front-end development of a simplified user interface that wraps Grafana using React
 - Developed Hypha Agent script to automatically install and configure OTel Collector to collect logs and traces
 - Containerized backend services using Docker (network, images, docker-compose)
 - Automated deployment to AWS ECS on Fargate with Docker Compose ECS integration
 - Increased system scalability by splitting services into read/write/store components using Nginx reverse-proxy for service discovery
 - Tested Hypha infrastructure locally and in a distributed microservice architecture
 - Co-Authored Hypha's case study: hyphaobservability.com/case-study ↗
 - Collaborated with a remote team of 4 engineers, including daily standups and pair programming
- 2019 – 2021 **Software Engineer, Self-Employed**
- Rekwestbin - An application for receiving & debugging webhooks deployed to AWS (Golang, EC2, CloudFormation, Nginx)
 - Reaction - Trello-like collaboration app (MongoDB, Express, Node.js, React, Redux)
 - Effortless - Browser extension that helps you stay focused when interacting with the Web (Javascript, Webpack, Cypress.io)
 - Slack Web Scraper - A web scraper configured to scrape and parse posts from Slack (Javascript, Puppeteer, Jest)
 - Ruby To UML - Generates UML diagrams from Ruby codebases by analyzing ASTs (Ruby)

SKILLS

Back End (Node.js, Ruby, Golang, Express, PostgreSQL, MongoDB, RESTful APIs, FP),

Front end (JavaScript, TypeScript, React/Redux, HTML/CSS, Jest, Cypress.io),

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

EDUCATION

- 2020 – 2021 **Software Engineering, Launch School**

Multi-year full-stack software engineering curriculum. Emphasizes taking the slow path to master programming fundamentals - <https://launchschool.com/employers> ↗

INTERESTS

Software Crafters Montreal Co-Organizer

- Organized and ran beginner workshops on TDD, refactoring and mob programming.