

# Iuliu Pop

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## PROFILE

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A full-stack software engineer that overflows with curiosity. I've built solutions using the JavaScript, Ruby and Golang ecosystems. I recently created **Hypha** ([hyphaobservability.com](https://hyphaobservability.com)), an open-source observability tool that deploys an end-to-end telemetry pipeline to AWS for correlating logs & traces.

## PROFESSIONAL EXPERIENCE

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- 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](https://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

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**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

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- 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

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**Software Crafters Montreal Co-Organizer**

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