Isaak Krautwurst

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Profile

I'm a full-stack software engineer who loves solving challenging problems, learning new things, and working collaboratively. I have years of experience with Ruby, Javascript, and Go ecosystems. I'm the co-creator of Hypha, an open-source observability solution for distributed systems.

Professional Experience

Co-Creator, Software Engineer, *Hypha* ⌕   2021 – present
- Designed, prototyped, and built Hypha: an automated, end-to-end telemetry pipeline that sets up distributed tracing, aggregates existing logs, and correlates logs with traces.
- Engineered the automated instrumentation of Node.js applications to emit logs and traces using OpenTelemetry SDK and Collector.
- Implemented the containerization and configuration of backend services including OpenTelemetry Gateway Collector, Jaeger, Grafana Loki, and Grafana using Docker Compose.
- Developed a custom UI powered by Grafana, providing an intuitive and focused debugging interface. Implemented the scaling of Loki and Jaeger services with read/write/store multi-service deployments using Nginx as a reverse proxy for service discovery.
- Engineered the automated provisioning and teardown of AWS cloud infrastructure via AWS CLI, ECS Fargate, and Docker Compose ECS integration.
- Collaborated closely with a remote team of 4 engineers, including daily standups and pair programming. Authored Hypha's technical case study ⌕

Software Engineer, *Self-Employed*   2020 – 2022
- Rekwest Bin - A tool for receiving and debugging webhooks (Go, Nginx, Digital Ocean Droplet, MongoDB, PM2)
- Reaction - A trello-inspired Kanban board for project management (React, Redux, Express, MongoDB, Node.js)

Tutor, *Academic Approach*   2016 – 2021
- Worked closely with hundreds of students to improve problem-solving skills and academic knowledge
- Designed and taught curricula for grades 6-12, customized for individual learning needs

Skills

Languages
Ruby, JavaScript, Go, SQL, HTML/CSS

Frameworks
Express, React/Redux, Sinatra, jQuery, Handlebars

Cloud
DigitalOcean, Heroku, AWS (EC2, IAM, ECS, ECR, Fargate, EFS)

Other Technologies
Docker, PostgreSQL, Node.js, MongoDB, HTTP, REST APIs, WebSocket, Webhooks, SSH, Git/GitHub

Education

Software Engineering & Web Development, *Launch School* ⌕
Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem solving and technical skills.

B.A. Linguistics, *University of North Carolina at Chapel Hill*   2008 – 2012