Josh Keller

Software Engineer

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PROFILE

A full-stack software engineer who loves collaborating to solve tough problems, learning new things, and believes in the power of software to change the world. Most recently I built Hypha (https://teamhypha.com 2), an open-source observability framework for distributed systems.

PROFESSIONAL EXPERIENCE

Software Engineer, Co-Creator, 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 SDK), processing (OTel Collector, Jaeger, Loki), storing (Elasticsearch & MinIO), and visualizing (Grafana) logs and traces
- Containerized backend services using Docker (network, images, docker-compose)
- Automated deployment to AWS Elastic Container Service on Fargate with Docker Compose ECS integration
- Led resolution of a gRPC error arising from a service publishing the IP address of a network interface that was in use by Fargate, unblocking deployment to AWS ECS
- Increased system scalability by splitting services into read/write/store components using Nginx reverse-proxy for service discovery, allowing for a 10x increase in log ingestion rate
- Developed Hypha Agent script to automatically install and configure OTel Collector to collect logs and traces
- Collaborated closely with a remote team of 4 engineers, including daily standups and pair programming.
- Co-authored the Hypha technical case study. (https://teamhypha.com/case-study 🖸)

Software Engineer, *Self-Employed*

- RekwestBin: RequestBin-like webhook and HTTP request inspection tool built with GoLang and MongoDB, deployed on DigitalOcean Droplet.
- Reaction: Trello-like project management application built using React/Redux, a Node.js/Express RESTful API, and MongoDB.
- ContactsApp: a simple contacts app built using vanilla JavaScript, Node.js/Express and PostresSQL. Deployed on Digital Ocean Droplet using Nginx as reverse Proxy.

Music Therapist, Centrica Care Navigators and Self-Employed

- Collaborated with interdisciplinary team to plan and deliver music therapy to hospice patients and families.
- Planned, implemented and continuously improved new music therapy programs in several settings.

SKILLS

Back End (Node. js, Ruby, GoLang, Express. js, Sinatra, PostgreSQL, MongoDB, Restful APIs)

Front End (*Javascript - ES6, React/Redux, HTML/CSS, Jest*)

Other Technologies (Git/GitHub, Linux, Docker, AWS EC2, ECS, Farqate, Heroku, Digital Ocean)

EDUCATION

Launch School, Software Engineering, (A+ average)

Multi-year, full-stack software engineering curriculum emphasizing mastery of core development skills and fundamentals of programming, networks, and databases.

Western Michigan University, MM (Music Therapy)

Conducted research and authored master's thesis. Taught courses independently as a graduate assistant.

University of Maryland, *BA (Music)*

Included 3 semesters as C.S. Major (C++, Linear Algebra, Discrete Mathematics)

2020 - 2022

2014 - 2020

2010 - 2015

2020 - 2022

2000 - 2005

2022 - present