Zach Kerner

Software Engineer

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PROFILE

I'm a full stack software engineer with extensive experience in JavaScript and Ruby. I'm proficient in Go, TypeScript and the AWS cloud infrastructure. I'm a culture builder with a talent for reading people, which enables me to collaborate successfully with a wide range of personalities.

PROFESSIONAL EXPERIENCE

Software Engineer
Mayfly 🔗   2023 – present

- Developed a multi-tier architecture for the automated deployment of containerized applications as running instances made accessible through endpoint URLs. (**Docker**, **AWS EC2**, **AMI**, **EBS**, **Lambda**, **AWSCLI**)
- Resolved a longstanding bug in the internal DNS that was blocking communication between drone and controller.
- Scaled the number of running drones from 1 to 20 which increased the number of concurrent connections to 10000.
- Reconstructed a database schema halving the number of round trips to the server. (**PostgreSQL**)
- Architected a RESTful API in **Node** and **Express** to enable communication between NATS, a pub/sub message queue, the database tier and 3rd party software.
- Designed a UI for streamlining user experience with **React** and Tailwind CSS.
- Authored an in-depth case study 🔗 that provides a comprehensive analysis of Mayfly's problem domain and use case.
- Collaborated remotely with a team of engineers using agile workflow.

Software Engineer
Self-employed   2021 – 2023
Developed freelance and open-source applications with a variety of languages and technologies.

- *HasBin* - an application for pooling and debugging webhooks (**DO Droplet**, **MongoDB**, **Node.js**, **Express**, **React**, **Nginx**)
- *Pubs* - an app for rated pickup basketball games (**Ruby**, **Heroku**, **Sinatra**, **PostgreSQL**)

SKILLS

- Back End - Node.js, Express, Ruby, Go, PostgreSQL, MongoDB, REST, APIs
- Front End - JavaScript, React, TypeScript, HTML/CSS
- Cloud - Digital Ocean, AWS (Lambda, EC2, EBS, ECS, CLI, SDK), Heroku
- Other - Docker, GitHub, Bash, Linux, Nginx, OOP, Jest, Postman, Prompt Engineering

EDUCATION

Launch School   2021 – 2023
Multi-year, mastery-based software engineering curriculum. Read more at launchschool.com/employers 🔗

BA Math/BS Economics   2008 – 2012
Binghamton University

Shapell's Rabbinical College   2015 – 2018
Completed a rigorous curriculum in Talmud, Bible and other classical texts in the original Hebrew and Aramaic.

MA Middle Eastern Studies   2018 – 2020
Tel Aviv University