

Zach Kerner

Software Engineer

✉ zachkernerdev@gmail.com 📍 New York, New York 🖱 zachkerner.dev 🌐 zachkerner

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 the emotional states of teammates and colleagues. This has enabled me to work with a wide range of personalities.

PROFESSIONAL EXPERIENCE

Creator, Software Engineer

2023 – present

Mayfly [🔗](#)

- 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**)
- Solved a tricky DNS problem that was preventing communication between drones and running instances.
- Scaled the number of running drones from 1 to 20 allowing us to greatly expand the number of concurrent connections.
- Grasped a challenging, open-source codebase in a foreign language with little documentation. This was critical for solving the scaling problem. (**Rust**).
- Constructed a database schema that halved the number of round trips compared to the original. (**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 with a team of diverse personalities and communication styles. Strong professional rapport was built and maintained.

Software Engineer

2021 – 2023

Self-employed

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

Dual degree in stats based economics and math.

Shapell's Rabbinical College

2015 – 2018

Completed a rigorous curriculum in Talmud, Bible and other classical texts in the original Hebrew and Aramaic.