

Zachary Sherman

I build tools for people

zach@zach.digital
[work github](#) / [about me](#)
Oakland

Infrastructure Engineer, (October 2020 - now), [ngrok](#)

I joined as the first engineer on the then-new infrastructure team. Over three years I helped build a team that now owns all of the developer and platform tooling and guided our team through several transitional phases as people churned. According to engineering managers, we are now "the highest-performing team at ngrok".

- *Configuration*: Led the ongoing design and maintenance of a custom **typescript** program that allows developers to change environment, cluster, service configurations and infrastructure without diving into YAML (or terraform) hell. I worked with the CEO to completely refactor the program for clarity before becoming lead maintainer.
- *CI*: Cut e2e-test times from 40m to 15m and unit tests from 15m to 5m using local caching and a parallel task runner written with [bubbletea](#). Increased system stability via a migration to [buildkite](#) with an EC2 group of buildkite agents running on [nixos](#).
- *Developer environments*: Used [nix](#) to manage external dependencies, [nix-direnv](#) to automatically load the devenv into your shell environment. Wrote a **terraform** module and **nixos** module for automatically initializing developer VMs. Maintained the monolithic dev-tools-cli written in **go**.
- *Agent packaging*: Developed and maintained [docker](#), [snap](#), [homebrew](#), and [chocolatey](#) packages for the ngrok agent. Automated releases with **go** and **buildkite**.
- *Observability*: Integrated and configured [vector](#) (logging), [veneur](#) and [datadog agents](#) (metrics). Setup [otel-collector](#) and [refinery](#) with [honeycomb](#) for tracing data.

Full-Stack Engineer, (April - May 2020), [Repl.it](#)

- quickly learned Apollo, GraphQL, and SQL to build a new system for sharing repls

Full-Stack Engineer, (July - Nov 2019), [Open Work Labs](#)

- built a variety of experimental products using React + Redux, NodeJS, web3.js, MongoDB

Personal Projects

- [e-worm.club](#)- wrote a little site for my friends where everyone gets their own page and css. the server serves both [gemini](#) and http traffic. [written in async rust](#).
- a bunch of [weird net art](#), one cool tech-enhanced [concert, and other misc toys](#)