

Emily Zhang

Software Engineer

Contact Information
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Skills

Go, Terraform, Kubernetes, AWS, Docker, Javascript (Node.js), Elasticsearch, Redis, PostgreSQL

Experience

Software Engineer, Netlify

March 2020 - Present, San Francisco, CA

- Created internal tooling (cli, webhooks, etc) to standardize our Github configuration and simplify our workflows.

Software Engineer, Lob

Aug 2018 - March 2020, San Francisco, CA

- Migrated untracked AWS resources to Terraform (managing our infrastructure as code).
- Worked on migrating Lob's production workloads from a legacy container orchestration system to Kubernetes.
 - Researched, prototyped, and deployed the following components into our Kubernetes clusters: ingress, pod IAM roles, certificate management, metrics, deployment tooling, and ensuring pod availability.
 - Intended to address long-standing problems with infrastructure availability, observability, and control. However, this project was eventually postponed due to circumstances beyond our control.
- Built internal tool in Go for Kubernetes cluster and deployment management to reduce the friction of the Kubernetes migration for our engineers.
 - Integrated with Docker, Kubernetes, AWS, and Helm to simplify our developer and CI/CD workflows.
 - Designed and implemented container image management, including builds, registry interaction, and secret management.
- Built [open source tool](#) in Go for managing multi-cluster workflows for Kubernetes, including centralized kubeconfig management, access control, and kubectl integration.
- Refactored our logging pipeline to be more resilient during periods of increased load or unpredictable downstream issues.
 - Wrote an autoscaling Go worker to process logs, improving log delivery reliability. In the previous design, logs were dropped whenever our Elasticsearch cluster experienced back pressure.

Software Engineering Intern, Lob

May 2017 - Aug 2017, San Francisco, CA

- Designed, built, and shipped a [customer facing API endpoint](#) (Elixir, Node.js) that receives ~3k requests per day.

Education

University of California, Berkeley (B.A. Applied Mathematics)

Aug 2014 - May 2018, Berkeley, CA

- Computer Science Minor
- QA Engineer, Berkeley Student Technology Services