Lawrence Pan

lawrence.pan@edu.uwaterloo.ca
lpan.io • github.com/lpan

Summary

Languages: Golang, Python, JavaScript, C/C++, Ruby, Clojure
Interests: Cloud-native infrastructure, Distributed systems, Database design
Technologies: Kubernetes, Spinnaker, Istio, Envoy, gRPC, Redis, Postgres, Consul

Experience

PlanGrid | Infrastructure Engineer Intern   *Sep 2018 - ongoing*

- Built Spinnaker pipelines to allow phased rollout for istio gateway-wide configuration changes
- Currently building tools and services that work with Kubernetes and Spinnaker, to enable scaling at PlanGrid

Datadog | Distributed Systems Engineer Intern   *Jan 2018 - Apr 2018*

- Worked on the metrics submission pipeline that streams millions of data points per second
- Owned the time-series creation service written in Golang by ensuring it met its SLOs
- Spearheaded the migration of the service's IPC layer to gRPC, details in blog post

Universe | Full-Stack Engineer Intern   *May 2017 - Aug 2017*

- Pioneered and shipped Universe's first front-end app that consumes its new GraphQL API
- Designed and implemented an in-house framework for building Universe's embedded widgets

Plotly | Front-End Engineer Intern   *May 2016 - Aug 2016*

- Maintained and developed features for a massive SaaS app built with React and Redux
- Contributed to the development of an e2e testing framework written in Python Selenium

Writings

- Lessons learned from writing a text editor in C (**HackerNews front-paged**)
- How gRPC helps improve reliability and fault tolerance at DataDog

Education

University of Waterloo Bachelor of Software Engineering
Sep 2016 - May 2021 (expected)
89.7% cumulative GPA, *Dean's Honours List*