

# Lawrence Pan

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## Summary

**Languages:** Golang, Python, Java, Scala, JavaScript, C/C++

**Interests:** Distributed systems, Streaming architecture, Cloud-native infrastructure

**Technologies:** Kubernetes, Linux Kernel, Spark, Postgres, Kafka, Consul, Envoy

## Experience

 **PlanGrid** | Infrastructure Engineer Intern Sep 2018 - Dec 2018


- Built Spinnaker pipelines to allow phased rollout for ingress-related infrastructure changes
- Extended the existing deployment system to support pre-deploy smoke tests
- Contributed to the effort of instrumenting distributed tracing, and implementing centralized authentication inside PlanGrid's Kubernetes cluster

 **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 storage service written in Golang by ensuring its availability
- Migrated the service's IPC layer to gRPC. Implemented consistent hashing and request termination, 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

- [My one-liner Dropbox client](#) (**HackerNews front-paged**)
- [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*