

# Lawrence Pan

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[lpan.io](http://lpan.io) • [github.com/lpan](https://github.com/lpan)


## Summary

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

**Interests:** Distributed systems, Real-time data pipelines, System programming

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

## Experience

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

- 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 Istio service mesh 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 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*