# Lawrence Pan

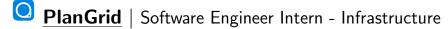
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## **Summary**

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

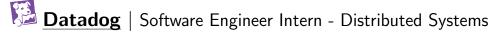
**Interests**: Distributed systems, Cloud-native infrastructure, Streaming architecture **Technologies**: Kubernetes, Linux Kernel, Spark, Postgres, Kafka, Consul, Envoy

### **Experience**



Sep 2018 - Dec 2018

- Implemented centralized authentication and path-based routing in PlanGrid's Kubernetes cluster using Envoy. This greatly improved security and developer productivity
- Built Spinnaker pipelines to allow *phased rollout* for ingress-related infrastructure changes
- Contributed to the effort of instrumenting distributed tracing



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 its availability
- Migrated the service's IPC layer to gRPC to improve reliability. Implemented consistent hashing and request termination, details in <u>blog post</u>

# Universe | Full-Stack Engineer Intern

May 2017 - Aug 2017

- Developed numerous business-critical, A/B-tested, user-facing features using React and Rails
- Pioneered and shipped Universe's first front-end app that consumes its new GraphQL API
- Plotly | Front-End Engineer Intern

May 2016 - Aug 2016

- Maintained and developed features for a <u>massive SaaS app</u> 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