Lawrence Pan

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Summary

Languages: Golang, Python, Scala, JavaScript, C/C++
Interests: Distributed systems, Stream processing, System programming
Technologies: Kubernetes, Linux Kernel, Spark, Postgres, Kafka, Consul, gRPC

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 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
- 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

- 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*