

Lawrence Pan

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lpan.io • github.com/lpan


Summary

Languages: Golang, Scala, Ruby, Python, Clojure, C/C++

Technologies: Redis, Postgres, MongoDB, gRPC, Envoy, Consul

Books: Designing Data-Intensive Applications, Google - Site Reliability Engineering

Experience

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

- Took ownership of a critical service written in Golang by ensuring its resiliency and availability.
- Migrated the service's inter-process communication layer (40k QPS) to gRPC.
- Proposed and implemented RPC deadline and cancellation to prevent cascading failures.

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

- Worked with the platform team to release Universe's first GraphQL API.
- Rewrote the deployment and orchestration framework for Universe's embeddable widgets

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

- Maintained and developed features for a massive SaaS app built with React and Redux.
- Implemented authorization for the app to distinguish between free and premium users.

Projects

lpan/viiv — *A light weight VI-like text editor written in C and ncurses*

- **HackerNews front-paged** with 273 upvotes and 195 GitHub stars.
- Designed and implemented an undo algorithm inspired by log-based replication.

Writings

- Lessons learned from writing a text editor in C: lpan.io/what-i-learnt-from-viiv
- How gRPC improves reliability and fault tolerance: lpan.io/migrating-to-grpc/

Education

University of Waterloo Bachelor of Software Engineering

Sep 2016 - May 2021 (expected)

3.9/4.0 GPA, *Dean's Honours List*