# **Andrew Liang**

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liangdrew.com

Software Developer

## **NVIDIA** • Distributed Storage Engineering

May - Aug. 2018

Santa Clara, CA

Experience

- Developed multi-level cache architecture support for DFC: a distributed, persistent object cache in Go
- Invented petabyte-scale dataset sorting framework for DFC: bit.ly/2yeYxOc
- Implemented dynamic **keepalive scheduler** based on TCP's RTO (RFC 6298)
- Benchmarked and integrated **h2c** protocol for DFC data and control planes
- Optimized for performance bottlenecks at scale using system profiling tools such as pprof, go-torch, tcpdump

#### **Taplytics** • Backend Engineering

Sept. - Dec. 2017

Toronto, ON

- Built a highly-performant user push notification pipeline with GCP and Node.js
- Created real-time webpage element classifier in JavaScript for A/B test suggestions
- Added RESTful HTTP APIs in Node.js to support data model backed in MongoDB

#### Wattpad • Platform Engineering

Jan. - Apr. 2017

Toronto, ON

- Built an open-source client library in **Go** for interfacing with third-party ad-serving API
- Leveraged circuit breaker design pattern in Go to harden web microservices
- Implemented search-related APIs to in Go, PHP to support new ad requirements

#### Paytm Labs • Data Engineering

May - Aug. 2016

Toronto, ON

- Patched data pipelines in Python, Scala to support new data ingestion requirements
- Wrote daily indexing flow to write 30M documents from Elasticsearch to HDFS

### Interests

- Open-source software
- Storage systems
- Distributed computing
- Barbering

#### Skills

#### Languages

Go C++ Bash Python JavaScript SQL

#### **Technologies**

Git **AWS** MySQL Unix **GCP** MongoDB

#### Concepts

Distributed Systems Concurrency and Parallelism Scalable Web Architecture

# **Projects**

go-adzerk – Go, Adzerk

HTTP client library in **Go** for interfacing with Adzerk's API

wattpoll - Go, MySQL

Microservice built with Go and MySQL which supports interactive polls on Wattpad

# **Education**

#### **University of Waterloo**

Bachelor of Software Engineering, 2020