Andrew Liang

☐ github.com/liangdrew ☐ liangdrew@gmail.com

in linkedin.com/in/liangdrew

liangdrew.com

Experience

Cruise • Software Engineer Intern

Sept. - Dec. 2019

San Francisco, CA

• Developing next-generation autonomous vehicle performance simulators in Python and contributing to performance-critical aspects of the AV in C++

Databricks • Software Engineer Intern

Jan. - Apr. 2019

San Francisco, CA

- Extended Spark runtime using Scala to support verticals in cluster management, security, and user library management
- Architected mechanism for Databricks control plane to consume arbitrary messages from highly-distributed Spark clusters in the data plane using Scala
- Contributed to development of instance pools: user-facing caches for cloud instances used to reduce Spark cluster creation time by 90%

NVIDIA • Distributed Storage Engineer Intern

May - Aug. 2018

Santa Clara, CA

- Contributed to core development of AlStore: a distributed storage system for Al in Go
- Invented a petabyte-scale distributed object shuffling layer in AIStore: bit.ly/2yeYxOc
- Implemented dynamic node keepalive scheduler based on TCP's RTO (RFC 6298)
- Evaluated performance bottlenecks at scale using pprof, go-torch, and tcpdump

Taplytics • Backend Engineer Intern

Sept. - Dec. 2017

Toronto, ON

- Created distributed user notification pipeline with Cloud Pub/Sub and Cloud Functions
- Built real-time webpage element classifier in **JavaScript** for A/B test recommendations

Wattpad • Platform Engineer Intern

Jan. - Apr. 2017

Toronto, ON

- Built an open-source client library in Go for interfacing with third-party ad-serving engine
- Implemented search APIs across microservices in Go to support new ad requirements

Paytm Labs • Data Engineer Intern

May - Aug. 2016

Toronto, ON

• Contributed to big data pipelines in Python and Scala to support product recommendation and built data products with Spark, Elasticsearch, and Grafana

Skills

Languages

Go	Python	Java
Scala	C++	SOL

Technologies

Git	AWS	Thrift
Linux	GCP	K8s
Spark	Kafka	Jenkins

Projects

go-adzerk

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

wattpoll

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

Interests

Distributed computing Computer security Barbering Ultimate frisbee

Education

University of Waterloo

Bachelor of Software Engineering, 2015 - 2020