Andrew Liang

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liangdrew.com

Experience

Cruise • Software Engineer Intern

Sept. 2019 - Present

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 AI 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