Andrew Liang

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Experience

Databricks • Software Engineer Intern

Jan. - Apr. 2019

San Francisco, CA

- Added features to custom **Spark** runtime to support team verticals in resource management, security, and library management
- Architected mechanism for Databricks control plane to consume arbitrary event 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 sorting 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 push notification pipeline with Cloud Pub/Sub and Cloud Functions
- Built real-time webpage element classifier in JavaScript for A/B test recommendations
- Added RESTful HTTP APIs in Node.js to support data models backed by MongoDB

Wattpad • Platform Engineer Intern

Jan. - Apr. 2017

Toronto, ON

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

Paytm Labs • Data Engineer Intern

May - Aug. 2016

Toronto, ON

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

Skills

Languages

Go Python Java Scala C++ SQL

Technologies

Git **AWS** K8s Linux **GCP** Bazel Spark Docker **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 Scalable web architecture Big data systems Computer security

Education

University of Waterloo

Bachelor of Software Engineering, 2015 - 2020