Andrew Liang

Software Developer

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Skills

Languages

Python, JavaScript, Bash, C/C++, Scala, Java, SQL

Technologies

Git, UNIX, React, Redux, Node.js, Jenkins CI, Azkaban, BigQuery, Flask, Elasticsearch, Grafana, Hadoop, Akka, MySQL

Experience

Paytm

Software Engineering Intern

Paytm Labs • Product Personalization

May 2016 - Aug 2016 Toronto, ON

- Patched data processing pipelines in Python, Scala to ensure seamless availability of data
- Built Node.js web app with React, Redux to visualize product recommendation metadata
- Created tool in Python, Bash to concurrently execute N data processing flows, cutting developer time needed to pay tech debt by 90%
- Wrote automated, fault-tolerant scripts with Python, Bash to eliminate all downtime during deployment for real-time apps
- Developed Grafana data dashboard using Lucene to visualize business and traffic metrics
- Refactored Scala, Akka code to decrease latency for real-time API serving 100M users
- Validated data sanity with spark-shell and SQL via BigQuery
- Interfaced with Azkaban, Jenkins, HDFS, Elasticsearch through agile development cycle

Education

University of Waterloo

Bachelor of Software Engineering, 2015 - 2020

Projects

alexandria - Python, Flask, MySQL

Hack the North, September 2016

SMS-based, wifi-independent subscription service for reading public domain books on a phone. Built core API modules and data processing scripts for raw data ingestion and data seeding.

Awards

President's Scholarship of Distinction

University of Waterloo Awarded to students with an entry average of at least 95%

Interests

Hackathons, acoustic guitar, ultimate frisbee, barbering

murmur - Scala, Akka

August 2016 – September 2016

WIP message-driven, actor-based group chat via the command line. Uses akka-actor for concurrency, scalability and akka-stream for message processing. Handles client messages with a WebSocket server.

Glide – Java, Android SDK

July 2015 – January 2016

Glider simulator for Android. Designed and implemented custom movement algorithms and practiced proper OOP principles. Published on the Google Play Store, achieving a 4.8 rating, with 1000 downloads.

C60 – JavaScript, Firebase

Hack the North, September 2015

Real-time Pebble smartwatch networking app which enables users to exchange contact details with nearby users. Simulates the effects of NFC.