Andrew Liang

Software Developer

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Skills

Languages

JavaScript	Go	Bash
Python	C/C++	SQL

Technologies

Git	MySQL	Cloud Functions
Unix	BigQuery	Pub/Sub
AWS	Elasticsearch	Datadog
MongoDB	Redis	Semaphore CI

Projects

go-adzerk – Go, Adzerk

An **open-source** HTTP client library in **Go** for interacting with the Adzerk API.

wattpoll – Go, MySQL

A microservice built with **Go** and **MySQL** which supports interactive polls on Wattpad.

Education

University of Waterloo

Bachelor of Software Engineering, 2015 - 2020

Experience

Taplytics • Backend Engineering *Sept. - Dec. 2017*

- Built a distributed bulk SMS and email delivery pipeline on **Pub/Sub**, **Cloud Functions**, and **Node.js** handling **300 GB/s** of data transfer
- Architected Bayesian traffic optimization engine with **Node.js** and **Flask** to boost A/B test ROI by **26%**
- Developed webpage element classifier in **JavaScript** to increase A/B test goal conversions by **72%**

Wattpad • Platform Engineering *Jan. - Apr. 2017*

- Built an open-source HTTP client library in **Go** for interfacing with Adzerk's ad-serving API
- Leveraged concurrency primitives in **Go** to improve microservice network request latency by **66%**
- Developed and instrumented RESTful APIs in **Go** and **PHP** to support new ad-related product requirements

Paytm Labs • Data Engineering *May - Aug. 2016*

- Patched data processing pipelines in **Python** and **Scala** to ensure **98.5%** uptime
- Contributed to actor-based recommendation API in **Scala** serving over **100M** users
- Built **Node.js** web app with **React** and **Redux** to visualize product recommendation metadata

Interests

- Open-source software
- Serverless architecture
- Distributed systems
- Barbering