# **Andrew** Liang

Software Developer

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## Skills

### Languages

| | | |
|---|---|---|
| JavaScript | Go | Bash |
| Python | C/C++ | SQL |

### Technologies

| | | |
|---|---|---|
| Git | Cloud Functions | Elasticsearch |
| Unix | Node.js | MySQL |
| AWS | BigQuery | Datadog |
| Pub/Sub | MongoDB | 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 in **Go** backed by a **MySQL** database which supports embedded polls at the end of a story's page on Wattpad.

## Education

**University of Waterloo**

Bachelor of Software Engineering, 2015 - 2020

## Experience

**Taplytics** • Backend Engineering *Fall 2017*

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

**Wattpad** • Platform Engineering *Winter 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 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 *Summer 2016*

- Patched data processing pipelines in **Python** and **Scala** to ensure **98.5%** uptime
- Built **Node.js** web app with **React** and **Redux** to visualize product recommendation metadata
- Refactored **Scala** code to **decrease latency** for recommendation API serving **100M** users

## Interests

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