

# David Zhang

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Languages     **Java, Python**, Swift, Objective-C, Scala, C++  
Technologies   Google Cloud, AWS, gRPC, Flask, GraphQL, Airflow, Cocoa Touch,  
                         Android, React Native, Docker  
Databases       Cloud Spanner, PostgreSQL, SQLite, Redis  
Tools             Git, IntelliJ, Xcode, Android Studio

## EDUCATION

### University of Waterloo

SEP 2013 - APR 2018

- Bachelor of Software Engineering Honours Co-op Program  
(with Distinction - Dean's Honours List)

## WORK EXPERIENCE

### Software Engineer, Snap Inc.

AUG 2018 - PRESENT

SEATTLE WA

- Actively working on Snap's dynamic product ad platform and data pipelines

### Data Engineer Intern, Snap Inc.

SEP 2017 - DEC 2017

VENICE CA

- Built data sampling tools for aggregation engine running on Spark cluster
- Added union support for aggregation across multiple data sources
- Built Airflow pipeline jobs to generate daily tier-1 business metrics
- Performed migration to upgrade in-house Airflow to latest version
- Incorporated custom, productivity-boosting features into Airflow UI

### Mobile Engineer Intern, Snap Inc.

JAN 2017 - APR 2017

VENICE CA

- Implemented end-to-end notification settings for Snap Ads Portal
- Built and improved client-side ad search through caching optimizations
- Added instrumentation to track network latency and daily active users
- Improved memory and CPU usage across iOS/Android mobile clients

### iOS Engineer Intern, FiveStars Loyalty

MAY 2016 - AUG 2016

SAN FRANCISCO CA

- Delivered revamped Explore View using Autolayout and Restkit
- Increased active users by 15% through Branch deep linking
- Designed request caching manager to reduce network overhead by 50%
- Identified hotspots within app and improved launch performance by 40%

## Fullstack Engineer Intern, OANDA

SEP 2015 - DEC 2015

### TORONTO ON

- Developed asynchronous flow to reduce registration time by 20%
- Reduced onboarding time by 80% through Vagrant setup
- Built custom web dashboards to monitor sprint pipeline quality

## Python Engineer Intern, Eventmobi

JAN 2015 - APR 2015

### TORONTO ON

- Built and maintained Flask-based RESTful API
- Implemented and benchmarked RabbitMQ-based asynchronous API
- Deprecated legacy content manager and migrated critical business logic

## SIEM Engineer Intern, Trustwave

MAY 2014 - AUG 2014

### CAMBRIDGE ON

- Developed Kafka-based distributed messaging tool for SIEM Next-Gen
- Researched migration feasibility from MySQL to MariaDB/Cassandra
- Benchmarked read/write performance of MariaDB storage engines

## PROJECTS

### KaeSwap

JUL 2019 - PRESENT

#### KAESWAP.COM

- Lead GraphQL backend engineer for a Kpop merchandise exchange platform supporting thousands of pageviews and hundreds of unique users

### Spycodes

AUG 2016 - JAN 2018

#### GITHUB.COM/DAVIDOZHANG/SPYCODES

- Built P2P multiplayer word association game that received 5K+ global downloads

### Off the Grid

NOV 2015

#### DEVPOST.COM/SOFTWARE/OFF-THE-GRID-LHGJ8Q

- Real-time offline canvas collaboration iOS app that placed within Top 6 finalist @ HackWestern 2015, an MLH-sponsored hackathon

### Scarecrow

NOV 2015

#### INSTRUCTABLES.COM/ID/SCARECROW-INTEL-IOT

- IOT-based security system built with Intel Edison and TouchID-based app that won 2nd place at Intel IOT roadshow hackathon