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