

# David Luo

3A Software Engineering

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## SKILLS

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**Languages:** Python, C/C++, JavaScript, PHP, Swift, Java, Scala

**Technologies:** Git, SQL, Gerrit, Google App Engine, jQuery

## EXPERIENCE

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**Ritual** Sep. – Dec. 2016  
*Data Scientist* Toronto, ON

- Designed and built machine learning pipeline as the sole developer to predict likelihood of referral success, improved success of referral suggestions from 60% to 70%
- Reduced run time of BigQuery database sync script by incorporating parallel computing
- Designed pipeline for recommendation engine and selected relevant features to use
- Created dynamic data visualization tool for user cohort analysis, used on a daily basis
- Wrote queries in BigQuery and MySQL to visualize the impact of new features and promotions, as well as to retrieve data for providing feedback to merchants

**Osellus Mobile** Jan. – Apr. 2016  
*Mobile Developer* Toronto, ON

- Implemented data visualization application using Swift
- Optimized application's built-in cache to reduce fetch time by 80%
- Developed algorithm to generate large amount of random data in preparation for future graph anomaly detection
- Migrated and refactored Objective-C codebase to Swift

**Ontario Ministry of Education** May – Aug. 2015  
*Software Tester* Toronto, ON

- Developed SQL scripts to process business data, generate reports and automate testing of data migration
- Increased accessibility of software for disabled users by implementing bug fixes
- Documented application workflow, used by all team members and presented to clients

## PROJECTS

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**Yelp Rating Predictor** (Python) Nov. – Dec. 2016

- Predicts review star rating using a classifier trained with NLP techniques

**Myo iTunes Controller** (Lua) Feb. 2015

- iTunes controller which detects and translates hand gestures into commands

## EDUCATION

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**University of Waterloo**, Bachelor's in Software Engineering 2014 – 2019 (expected)