David Luo

3B Software Engineering

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SKILLS

Languages: Python, C/C++, JavaScript, PHP, Swift, Java, Scala
Technologies: Git, SQL, pandas, scikit-learn, Gerrit, Google App Engine, jQuery

EXPERIENCE

Microsoft   May – Aug. 2017
Software Engineer   *Tokyo, Japan*
- Developed workflow to analyze over 30 million rows of word conversions from Japanese input method, found and ranked 20 key factors of incorrect conversion
- Increased data overlap by 20x to improve analysis between user feedback and tracked data
- Implemented a bag of words model to find context words, improving word prediction by 5%
- Prototyped news article recommendation system based on users' typing history

Ritual   Sept. – Dec. 2016
Data Scientist   *Toronto, ON*
- Individually designed and built machine learning pipeline to predict likelihood of referral success, improved success of referral suggestions from 60% to 70%
- Reduced run time of BigQuery database sync script by 50% using parallel computing
- Maintained and added new tools to internal reporting web application, used by general managers and CEOs to easily monitor the status of users, merchants, and revenue

Osellus Mobile   Jan. – Apr. 2016
Mobile Developer   *Toronto, ON*
- Implemented iOS application which reinforces learning by allowing instructors to distribute quizzes and link relevant materials to each quiz
- Optimized application's built-in cache to reduce fetch time by 80%
- Migrated and refactored Objective-C codebase to Swift, reduced codebase size by 30%

Ontario Ministry of Education   May – Aug. 2015
Software Tester   *Toronto, ON*
- Developed SQL scripts to 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

CoffeeTime (Android, Java, Firebase, Coinbase)
- Allows friends to pick up coffee for each other, uses bitcoin as transaction currency

Yelp Rating Predictor (Python)
- Predicts review star rating using a classifier trained with NLP techniques

EDUCATION

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