

Jerry Xu

JERRXU@gmail.com +1 647-451-8602 [linkedin.com/in/jerry-xu](https://www.linkedin.com/in/jerry-xu) github.com/Jerrxu

Experience

Software Engineer, Nextdoor, Ads team Sept 2019 - Apr 2023

Developed end-to-end features for Nextdoor's next generation ad server and order-taking platform
Designed, implemented and maintained audit log, error dashboard, duplication and retry systems
Iterated on audit log system multiple times to expand system tracking for revenue compliance
Modified out-dated SQL schemas to enhance scalability from thousands to millions of users
Debugged numerous platform issues to ensure solid ad revenue for Nextdoor's IPO in 2021

Software Engineering Intern, Nextdoor, Web team Sept - Dec 2017

Implemented features for a massive web app using React, Python, Django
Created a new posts notification feature with hundreds of users every minute
Converted existing Jinja pages to React, integrated them with main application
Implemented Flow for JavaScript type-checking to prevent semantic errors, wrote JS & Python unit tests

Software Developer Intern, Pivotal Labs Jan - Apr 2017

Worked on multiple iOS apps for a Fortune 10 client with Objective-C and Swift
Implemented a redesign of an applet which removed 70% of navigation bugs
Optimized Concourse CI/CD pipelines to decrease testing times by approx. 28%
Practiced test-driven development while pair-programming with full-time devs in an agile environment

Test Developer Intern, Pivotal Labs May - Aug 2016

Wrote 20+ Espresso, Earl Grey, Cedar test suites for 3 mobile applications
Verified daily manual test suites on Android/iOS projects in an agile environment
Setup automated Android Espresso tests for Concourse CI pipelines
Handled multiple projects simultaneously to deliver high quality apps to clients

Projects

Intellex, Information Retrieval Jan 2018 – Apr 2018

Developed search system to help Singaporean law firms query for relevant criminal cases
Used NLTK, Pickle, PyDictionary Python libraries to index, search, and expand queries
IR techniques implemented: Boolean/free-text queries, relevance feedback, stemming, n-grams

WatSat, U of Waterloo Nano-Satellite Sept 2014 – Dec 2016

Developed power management system for the Canadian Satellite Design Challenge nanosatellite
Worked alongside power systems team to design and fabricate printed circuit boards using Eagle
Cooperated with members of payload, ion thruster, and propulsion teams to optimize board layouts

Technical Skills

Web development with React, Python, Node.js, Bootstrap, jQuery, SQL
Information retrieval experience with Python NLTK, PyDictionary
Completed machine learning courses with Python's numpy, Google scikit, and Tensorflow
3D and circuit board design using Eagle, Autodesk Inventor

Qualification

Bachelors of Applied Science in Computer Engineering, University of Waterloo, Class of 2019

Courses: Operating Systems, Compilers, Parallel Programming, Information Retrieval
Programming Mentor of CS and Robotics Club, Principal Violin of UW Symphony Orchestra