Jerry Xu

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Experience

Software Engineer, *Nextdoor*, Ads team   Aug 2019 - Apr 2023

Developed end-to-end features for Nextdoor's new ad server using Java, Kotlin, Kafka and DynamoDB
Designed, implemented and maintained audit log, error dashboard, duplication and retry systems
Update out-dated SQL schemas to enhance scalability from thousands to millions of users
Iterated on audit log feature to expand system tracking for revenue compliance
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 and Django
Created New Post Notification feature serving hundreds of users per 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 app features for a Fortune 10 client with Objective-C and Swift
Implemented a redesign of an applet which removed 70% of navigation problems
Optimized Concourse CI/CD pipelines to decrease testing times by roughly 28%
Practiced test driven development and pair programming in an agile environment

Test Developer Intern, *Pivotal Labs*   May - Aug 2016

Wrote 20+ Espresso, Earl Grey, Cedar test suites for 3 mobile applications
Manually verified daily 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 - Apr 2018

Developed text 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 used: Boolean/free-text queries, relevance feedback, stemming, n-grams

WatSat, UWaterloo nanosatellite   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

jerrxu.github.io, JavaScript command line interface with basic file system

Qualifications

Bachelors of Applied Science in Computer Engineering, University of Waterloo, Class of 2019
Courses: Operating Systems, Compilers, Parallel Programming, Information Retrieval
Completed machine learning courses with Python's numpy, Google scikit, and Tensorflow
Programming Mentor of CS and Robotics Club, Principal Violinist of UWaterloo Symphony Orchestra