

# SALLY YANG JING OU

yjou@uwaterloo.ca | github.com/sally-yang-jing-ou | linkedin.com/in/sallyouyang | www.sallysally.ca

## SKILLS SUMMARY

- Application Development – Python, C/C++, Objective-C, Swift, Java, C#, MySQL, Neo4j Graph Database
- Web Development – JavaScript, HTML/CSS, jQuery, MongoDB, Angular.js, Node.js
- Interests – Data Analysis, Machine Learning, Mobile and Full-stack Web Development

## WORK EXPERIENCE



### LinkedIn - Job Recommendations

Software Engineer Intern

Sunnyvale CA, Jan - Apr 2017

- Architected a unifying infrastructure for feed, search relevance and career recommendation services
- Engineered a modular system to facilitate parallel computation in career recommendation engine
- Implemented a data post-processing pipeline to optimize scoring and ranking of job postings
- Built a caching system for search requests to improve query efficiency
- Used: Java, RESTful API



### A9.COM - Advertising Technology

Software Engineer Intern

Palo Alto CA, Apr - Aug 2016

- Re-architected data pipeline to sample logs and stream data from Hadoop (HDFS) to AWS Elasticsearch
- Increased accuracy of ads inventory forecasting by improving index sampling rate on ads traffic
- Enabled horizontal scalability by leveraging Elasticsearch to replace FastBit
- Optimized and rewrote queries to reduce latency in query performance by 50%
- Used: Java, Pig, Python, Hadoop, Elasticsearch, Eclipse, Git



### LinkedIn - Internal Tools

Software Engineer Intern

Mountain View CA, Aug - Dec 2015

- Implemented and deployed a library dependency tracking service that is used in tools infrastructure
  - Had full ownership and responsibility over building the Python backend service from scratch
- Designed and developed cross-platform RESTful API client with Python Flask
- Improved up to 8x speedup in query performance by leveraging the Neo4j Graph Database
- Built a backend processor to handle real-time data feed using distributed messaging system Apache Kafka
- Used: Python, Flask, Neo4j Graph Database, MySQL, Apache Kafka, HTML



### Pivotal Labs - Mobile Apps

Agile Software Engineer Intern

Toronto ON, Jan - Apr 2015

- Implemented new features for Uber on Windows Phone 8, and released the Beta to Windows Store
- Integrated with Uber and Paytm API for user registrations, added support for Paytm Wallet in India
- Completed internal iOS Sales Console app for tracking customers' satisfaction and financial data
- Optimized deep-linking and enhanced UI designs on ABC News Apple Watch extension (iOS)
- Used: Objective-C, Swift, C#, Visual Studio, CocoaPods, Apple Watch, Cedar for TDD



### Pulse Energy - Web Apps

Software Developer Intern

Vancouver BC, Apr - Aug 2014

- Automated tests in Node.js, Selenium-WebDriver, adopted Sauce Labs Cloud for multi-browsers testing
- Replaced manual testing for Pulse Energy's flagship product with automated end-to-end tests
- Used: JavaScript, Node.js, Knockout, CSS, HTML, Git, Sauce Labs

## PROJECTS

- Event Manager: iOS application that edits/organizes photos in different folders based on events or dates
- Echoes: A location-based messaging and images communication iPhone and Web app
- Pebble SOS: Emergency service that sends out virtual cry for help on Facebook by shaking Pebble Watch

## EDUCATION

• Candidate for Bachelor of Software Engineering, University of Waterloo

2013 – 2018 (expected)