

Yuqing (Crystal) Li

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SUMMARY

Seeking a full-time software engineer position starts from June 2020.

Master student from NYU with strong skills of objective-oriented design, data structure and algorithm. Proficient in Java and Python programming. A wide range of project experience on web development based on Tomcat, Spring, Hibernate, AWS and React. Experienced in iOS mobile applications development using objective-C.

EDUCATION

- **New York University (Tandon School of Engineering)** New York
M.S. in Computer Engineering *Sept 2018 - May 2020(Expected)*
- **Wuhan University of Technology** Wuhan, China
B.Eng. in Electrical Engineering *Sept 2014 - June 2018*

SKILLS

- **Programming Languages:** Java, Python, MATLAB, SQL, Objective-C, JavaScript
- **Databases and Cloud:** MySQL, AWS EC2, AWS Lambda
- **Web/Mobile development:** Java Servlet, HTML, CSS, React, Firebase, iOS

WORK EXPERIENCE

- **Tencent Technology Ltd.** Shenzhen, China
Software Engineer Internship *June 2019 - Aug 2019*
 - Used **Objective-C** to develop Boodo, which is an iOS application of 900,000 DAUs. Used **Git** for version control.
 - Analysed the running time of login thread using **Xcode Instruments** and fixed the thread problem to significantly improve login speed by 1.2 seconds.
 - Created comment module of video player based on **MVC** architecture and used **NSNotificationCenter** in Cocoa framework to monitor keyboard events.
 - Engineered multiple custom animations, transitions, and UI components for version 2.0 of Boodo with frameworks such as **CoreAnimation**, **UIKit** and **UIView**. Increased 12% daily active users compared to version 1.9.5.

PROJECTS

- **Spring and Hibernate based Shopping System** *Jan 2020 - Mar 2020*
 - Used Spring framework to build a web application for users to shop and order items online, implemented security workflow via in-memory and JDBC authentication provided by Spring Security.
 - Utilized Hibernate to provide better support of database operations.
 - Implemented a fulfillment system used AWS Lambda and AWS Step Functions.
- **JobHunter – AWS based Job Recommendation System** *Oct 2019 - Dec 2019*
 - Developed an interactive webpage used HTML, CSS, JavaScript for users to search and apply jobs.
 - Created three Java servlets with RESTful APIs to retrieve position data fetched from Github API, and used MySQL database on Amazon RDS to store data.
 - Used MonkeyLearn API to extract keywords from description of positions and designed algorithms to provide job recommendation.
- **React JS based NBA Player Strength Visualization** *Aug 2019 - Sept 2019*
 - Created a dashboard using React, D3 and Ant Design backed by API from stats.nba.com to visualize individual player's shot data, including a shot chart and user profile view.
 - Created 4 extra filters and 2 shot themes (hexbin and scatter) to provide customized visualization on shot chart.
 - Developed an autocomplete player search bar providing a list of players(image and name) in the suggestion list.
- **PCA and SVM Based Image Processing Research** *Apr 2018 - May 2018*
 - Pre-processed facial database with image processing on MATLAB, including gray scale processing, image compression. Used fast PCA algorithm to implement facial feature extraction.
 - Constructed classifier using SVM. Pre-trained classifier with training dataset to prepare for face recognition.
 - Adjusted key parameters to prevent model from overfitting or underfitting and improved the face recognition accuracy from 81.6% to 91.2%.