Nathan Zhang

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github.com/nthnzhang

Education

University of Southern California, B.S. Computer Science, Major GPA: 3.50   *Expected May 2020*

Experience

Software Engineering Intern, Visa   *May 2018 - August 2018*

- Developed an SDK using Swift to implement mobile payments over Bluetooth Low Energy (BLE) technology.
- Established an L2CAP channel to exchange encryption keys for transport layer security.
- Utilized Swift and Xcode to build a Point of Sale application following MVC guidelines to demonstrate the BLE capabilities to senior level staff.
- Connected the application to existing Visa payment rails with Java Spring.

Software Engineering Intern, JD.com   *May 2017 - August 2017*

- Worked to implement music streaming functionality on JD's Amazon Alexa equivalent.
- Wrote a library using Java and MySQL to facilitate song retrieval across several of China's largest music sites, improving client streaming speeds by a factor of two.
- Used Selenium WebDriver and BrowserMob Proxy to trigger and monitor HTTP content, massively increasing automated effectiveness.

Intern, Yahoo! Beijing   *December 2014 - January 2015*

- Built a webpage that coordinated hundreds of engineers' dinner preferences.
- Pinged a selection of restaurant API's with Java, providing up-to-date menu choices.

Recent Projects

Sozu, *Co-founder and Lead Developer*

- Created an iOS application that modernizes the journaling process with video. Built using Swift and Firebase.
- Link: https://www.sozuapp.com/

GeoQ

- A multithreaded web-based trivia game with multiplayer functionality that incorporates Google's Street View API. Developed with JavaScript, Java, and MySQL.
- Source Code: https://github.com/luke738/GeoQ

Skills

Languages and Tools

- Java, C++, Swift, JavaScript, Python, HTML/CSS
- Git, MySQL, Firebase, Spring

Software

- GitHub, JIRA, Bitbucket, Postman, Tomcat, SoapUI

Affiliations

Lavalab, USC's premier startup incubator

Scope, USC's top computer science group

USC Division I Men's Rugby, Starter and Executive Board Member