



Wesley Wei Qian

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Education

Brandeis University | Waltham, MA

Bachelor of Science in Computer Science and Neuroscience

SEP 2013-MAY 2017

Dean's List:

FALL 2013, SPRING 2014, FALL 2014, SPRING 2015

GPA: **3.93 / 4.00**

Experience

MACHINE LEARNING RESEARCH INTERN | BRANDEIS UNIVERSITY

MAY 2015-PRESENT

- ▶ Conduct interdisciplinary research in computer science & biology using machine learning technique
- ▶ Tackle the NP-complete graph matching problem with a graduated assignment algorithm
- ▶ Implement a machine learning model to automatically generalize similar patterns from a set of sample attributed relational graphs(ARs) and detect similar spatial pattern from new graphs
- ▶ Innovate a new way to match proteins with 3D structure instead of the traditional sequence matching using the pattern generalization algorithm
- ▶ Implement the algorithms using MATLAB Machine Learning Toolbox and MATLAB OOP scheme

UNDERGRADUATE TEACHING ASSISTANT | BRANDEIS UNIVERSITY

SEP 2014-PRESENT

- ▶ Give weekly lectures for intro & advanced java, data structure/algorithm
- ▶ Hold weekly office hours for individual student discussion and write JUnit test for code grading

GOOGLE CODEU PARTICIPANT | MOUNTAIN VIEW, CA

MAR 2015-AUG 2015

- ▶ Participated CodeU, an exclusive dev program for high potential students to strengthen their skills
- ▶ Completed Udacity's Developing Android Apps course, and worked with three other participants to create a contact transfer Android Application that transfers users' contact and social platform info with NFC or QR Code using Android Beam API, ZXing Project and Parse backend in two weeks
- ▶ Presented the application at Google Tech Corner and won the runner-up for Engineer's Choice

PHOTOGRAPHER | HARVARD SEED

NOV 2013-SEP 2014

- ▶ Member of Harvard SEED on Citizenship and Social Innovation
- ▶ Create photo-based magazine project; take and edit photos for events

RACIAL MINORITY SENATOR | BRANDEIS UNIVERSITY

SEP 2013-MAY 2014

- ▶ Elected to represent racial minority students (50% student body) in the Student Union
- ▶ Created videos showing differences in cultures and hold poetry slam in social justice
- ▶ Implemented sustainability initiatives in dining halls campus-wide.

Courses

- ▶ Operating System (*On Going Course*)
- ▶ Database Management Systems (*On Going Course*)
- ▶ Intro/Advanced Java Programming in OOP
- ▶ Web Application Development in HTML, CSS, JavaScript utilizing BootStrap, AngularJS & PhoneGap
- ▶ Spoken Dialog Design for voice-powered software
- ▶ Data Structure and Algorithm Design
- ▶ Computer Program Structure and Interpreter
- ▶ Statistical Machine Learning

Projects

KAGGLE: RESTAURANT REVENUE PREDICTION | BRANDEIS UNIVERSITY

APR 2015

- ▶ Predicted restaurant revenue for TFI, the company behind some of the world's most well-known brands including Burger King and compete with other data scientist on Kaggle
- ▶ Utilized linear regression, regression tree, fit ensemble, support vector machine package in MATLAB
- ▶ **Rank 38th (<2%) among 2257 teams from all over the world**
- ▶ Github project: <https://github.com/WesleyC/RestaurantRevenuePrediction>

JEEVES | BRANDEIS UNIVERSITY

JUL 2014-AUG 2014

- ▶ Created Jeeves, an Android voice-powered virtual assistant for everyday routines
- ▶ Focused on conversational dialogue and provided user a natural interaction with the app
- ▶ Crafted with JavaScript, HTML, CSS, news/weather/gmail API, Bootstrap, AngularJs and PhoneGap
- ▶ **Runner-Up of AVIOS Mobile Speech Application Contest 2015**
- ▶ Github project: <https://github.com/arikalfus/Jeeves>

CONTACT TRANSFER | MOUNTAIN VIEW, CA

JUL 2015-AUG 2015

- ▶ Created a contact transfer Android Application that transfers users' contact and social platform info in a quick manner using NFC or QR Code
- ▶ Worked with Android Beam API for NFC support, ZXing Project for QR code support and Parse backend in Android Studio
- ▶ Presented the application at Google Tech Corner and won the runner-up for Engineer's Choice
- ▶ Github project: <https://github.com/WesleyC/ContactTransfer>

IMAGE EDITOR | BRANDEIS UNIVERSITY

JUL 2014-JAN 2015

- ▶ Design an image editor in terminal interface written in Java with functions including flipping and cropping image, inverting and replacing color, and adjusting brightness
- ▶ Github project: <https://github.com/WesleyC/ImageEditor>

AQUALOVE | SEED HACKATHON

AUG 2015

- ▶ Create a drinking water quality inspection project to raise people's awareness of their drinking water by building a interesting water test kit and a social networking application on android
- ▶ Build an Android application in Android Studio with Google Map API and Parse backend, forming a real time drinking water quality review and upload platform with data visualization on map
- ▶ Github project: <https://github.com/WesleyC/SEEDHack>

KNIGHTLIFE | BRANDEIS UNIVERSITY

SEP 2014-DEC 2014

- ▶ Build a young adult-focused Android tool to help friends stay in contact at social events and nighttime gatherings. Designed to ensure safety and facilitate group communication
- ▶ Crafted with JavaScript, HTML, CSS for fronted end, Node.js for back end server, MongoDB for database and PhoneGap for phone application compiling
- ▶ Github project: <https://github.com/arikalfus/OperationNightlife>

FOR MORE

- ▶ <https://github.com/WesleyC>

Skills

Programming skills in Java, Python, MATLAB , Scheme, C , JavaScript, HTML, CSS and **proficient with** Parse, Node.js, AngularJS, Bootstrap, MongoDB, PSQL. **Experience in** Android Development, Statistical Machine Learning, Bioinformatic and Neuron Modeling, Speech Recognition Grammar(GRXML). **Native in** Mandarin and Cantonese. **Familiar with** Aperture, Photoshop and Lightroom. **Enjoy** photograph, biking and equestrian.