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, FALL 2015**

GPA: **3.96 / 4.00**

Award: **Phi Beta Kappa Junior Recipient, Jerome A. Schiff Fellowship, Collaborative Research Grant**

Experience

UBER SOFTWARE ENGINEERING INTERN | SAN FRANCISCO, CA **JUN 2016-AUG 2016**

- Work in the Mobile Infrastructure team at Uber
- Create and design an internal tool for mobile developers to investigate UI test failures on Uber's Continuous Integration platform in full speed by aggregating and synchronizing logs and videos.
- Engineer in full stack with React.js front-end and Python/Go back-end

MACHINE LEARNING RESEARCH INTERN | BRANDEIS UNIVERSITY **MAY 2015-PRESENT**

- Conduct interdisciplinary research in computer science, biology and linguistic using statistic machine learning and deep learning approach with Professor Pengyu Hong
- Optimize automatic graph feature extraction algorithm and apply the model in biology domain
- Implement computational linguistic models using deep learning framework and other statistical tools to match sentences in the same conversational context
- Selected as Jerome A. Schiff Fellow for the innovation in biology and machine learning

UNDERGRADUATE TEACHING ASSISTANT | BRANDEIS UNIVERSITY **SEP 2014-PRESENT**

- The role has differed from course to course, but duties consistently entail office hours, grading, test grading, holding recitations, and review sessions
- The courses are: Intro/Advanced Programing in Java; Data Structure; Structure and Interpretation of Computer Programs; Operating System

GOOGLE CODEU PARTICIPANT | MOUNTAIN VIEW, CA **MAR 2015-AUG 2015**

- Participated CodeU, an exclusive dev program for high potential students to strengthen their skills
- 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

Skills

Programming skills in Java, Python, MATLAB , Go, C , JavaScript, and **proficient with** Node.js, React.js, AngularJS, MongoDB, PSQL. **Experience in** Distributed System (Paxos, Spanner etc), Android Development, Statistical Machine Learning, Deep Learning, Bioinformatic and Neuron Modeling. **Familiar with** Aperture, Photoshop and Lightroom. **Enjoy** photograph, biking and equestrian.

Projects

RESTAURANT REVENUE PREDICTION | KAGGLE **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/WesleyyC/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

AUTOMATIC SPATIAL PATTERN EXTRACTION | BRANDEIS UNIVERSITY **SEP 2015-PRESENT**

- Apply a pattern recognition machine learning model and innovate a new way to match proteins in their tertiary(three dimension) structure instead of their primary(linear) structure
- Tune and customized a pattern extraction model with high throughput protein data using parallel computing techniques and a robust EM algorithm to handle the high diversity in protein sequence
- Train protein sequence with skip gram algorithm to generate vector representation for amino acids

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/WesleyyC/ContactTransfer

DEMANDWARE FIELD PROJECT | BURLINGTON, MA **SEP 2015-DEC 2015**

- Research, propose and test solutions and features to enhance in-store shopping experience by bridging internet and physical store with Demandware
- Develop two mobile application, Android and iOS, to do a proof of concepts on some emerging technologies like beacons (notification and triangulation location), Google Indoor Map, etc
- Github project: https://github.com/BrandeisXDemandware

FOR MORE

- **https://github.com/WesleyyC**

Courses

- *Introduction to Big Data Analysis (ongoing)*
- Intro/Advanced Java Programming in object oriented programming
- Data Structure and Algorithm Design
- Computer Program Structure and Interpreter
- **Statistical Machine Learning**
- **Operating System**
- **Database Management Systems**
- **Distributed Systems**