**Justin Zhang**

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# Education

## Brown University Providence, RI  Expected graduation May 2020

Sc.B. in Applied Math and Computer Science

*Coursework includes*: Linear Algebra, Systems Programming, Theory of Computation  *GPA:* 3.7

# Relevant Experience

## Brown Computer Science Department, *Undergraduate Teaching Assistant* Providence, RI  2017-Present

* Ran weekly tutorials/labs to assist and teach students; graded weekly assignments and provided feedback.
* Played a pivotal role in course management – including creating testing suites/lab handouts/assignment specifications.
* Worked in small group to create Python script to parse auto-graded student assignments from .json to csv, Google Script to parse Google Sheets documents and generate grade reports.

## Brown Sports Analytics Club, *Webmaster / Member* Providence,RI  2017-Present

* Used Python/BeautifulSoup to scrap data from baseball reference sites into .csv files, used ggplot2 and RStudio to conduct statistical analysis and visualize results.
* Lead developer for group’s website; designed and formatted using WordPress/HTML/CSS and continually updated it with group members’ new articles

## North Carolina A&T State University, *Researcher* Greensboro, NC  Summer 2017

* Used Angular/Node.js to create a client/server application capable of using biometric facial recognition for user authentication rather than tradition usernames/passwords.
* Worked on Java program that used local binary patterns to compare facial images and quantitatively determine similarity.

## Jackson Laboratory, *Student Researcher* Durham, NC  2014-2016

* Participated in weekly video conferences with Jackson Laboratory; learned about computational techniques in R-Studio and the use of mice in genetic studies
* Analyzed the BTBR mouse dataset in R-Studio to find correlations between certain genotypes and certain diseases
* Co-authored a research paper on the effect of the *Slc-19A2* geneon the metabolic pathways of diabetes

# Projects

## NBA “Clutch-ness” Web Application

* Used Python to scrap player statistics in end-of-game situations from basketball reference sites and upload data to SQL database
* Created interactive user interface with Bootstrap/Javascript/PHP; used user input to query relevant statistics from database, calculate metrics of clutch-ness, and dynamically display results

## Brown Hackathon

* Worked with team to create a rudimentary optical character recognition program in Python that took in images of handwritten text and output the text itself.
* Developed a simple Android user interface in Android Studio that took pictures and used the OCR to return the text in the picture.

# Skills

*Technical:* Python, Java, Scala, C, R-Studio, HTML/CSS, Javascript, Unity