Vic(Haozhuo) Huang

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES *Expected June 2019*

Bachelor of Science, **Computer Science**

GPA: 3.97/4.0, Major GPA: 4.0/4.0

UCLA Dean's Honors List *Sep 2015-Now*
- Selected on **UCLA Dean's Honors List (5 times)** for academic excellence during regular school quarters.

SKILLS

- **Programming skills:** C/C++, Python, Linux, Git, JavaScript, PHP, TensorFlow, Node.js, Keras, Selenium, HTML

RELEVANT EXPERIENCES

UCLA Neurovascular Imaging Research Core *June 2017-Sep 2017*
- Conducted text analysis research for medical reports to extract useful data and provide cleaned data for further research.
- Developed an algorithm that detects whether symptoms are acknowledged or denied by doctor for each report's sentence.
- Mapped a range of medical terminologies to UMLS code in report using Python and Metamap to clean up original texts.

UCLA Daily Bruin Developer *Sep 2016-Now*
- Worked in a team and created web applications for UCLA Daily Bruin Online Department and Daily Bruin's website.
- Implemented a related content window on the side bar of every article page that gives reader a list of related articles of current page on Daily Bruin's website by querying through databases and rendering the list using PHP.

PROJECTS

Automated Class Enrollment Application *July 2017-Aug 2017*
- Implemented a class enrollment app that can monitor targeted courses and enroll in desired classes once there is free spot.
- Automated the process of logging into MyUCLA student portal to enroll in classes using Python and Selenium.
- Scraped the student portal to get real time course data by traversing xpath and DOM with frequency specified by user.

Facial Expression Music Application *Mar 2017-Apr 2017*
- Built an iOS app with a team in LA Hacks using React Native that streams music to user by the mood in user's selfie.
- Analyzed the facial expression of user's selfie with Azure API to get the most accurate mood of the uploaded selfie.
- Utilized Spotify API to get recommended tracks that fit user's mood based on facial expression analysis with Node.js.
- Used Youtube API to get the track's list and streamed the music to the application from server using Flask and Python.

Kidney Tumor Image Classification *Mar 2017-June 2017*
- Designed a machine learning program that systematically classifies different kinds of kidney tumors' MRI images.
- Utilized transfer learning that adds 5 fully-connected layer on top of original VGG network using Keras and Python.

Multi-room Web Chat Application *Aug 2016-Sep 2016*
- Developed a web chat app that allows user to sign in with Facebook and Twitter accounts using Passport.js and Node.js.
- Allowed user to create, join or quit chat rooms by topic of interests and chat in specific room(s) with Socket.io.
- Added functionalities that enable users to send messages and upload images in separated chat rooms instantly.

On-disk multi-map *Mar 2016*
- Implemented a multi-map data structure with free list that could store, retrieve and update data on disk using C++.

AWARDS AND LEADERSHIP

UCLA DataFest Finalist *May 2017*
- Placed in **top 6** out of 66 teams and won honorable mention for Best Use of External Data with 4 teammates at DataFest.
- Visualized travelers traffic and flow in America using Python and Gephi and performed K-means clustering for analysis.

UCLA Statistic Club Executive Board – Workshop Co-chair *May 2017-Now*
- Organize workshops to teach languages and software for statistical analysis and hold tutoring hours for club members.