# Shuai Huang

Tel: 415-802-5566 | Email: shh176@ucsd.edu
9450 Gilman Drive, #10224, San Diego, CA, 92093

## EDUCATION

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| **University of California, San Diego** | GPA: 3.67/4.0 |
| B.S. in Computer Science | 06/2019(expected) |
| **Foothill College** | GPA: 3.87/4.0 |
| Applied Mathematics for Transfer | 09/2014 – 06/2016 |

## EXPERIENCE

**ChatApp Development – Functionalize A ChatApp**

Remote group work advised by a Google employee          03/2017- Present| Google CodeU

- Learned and Implemented a MySQL database by using Java Database Connectivity (JDBC) API from Oracle to connect Java programs with the database and Database Connection Pool (DBCP) API from Apache Commons to allow simultaneous interactions between database and users and enhance efficient use of connections for user requests
- This is an ongoing project and will enable the database to store more diverse objects that include users, messages and conversations. Future work will be updated.

**Machine Learning Research Group**          2016/2017 academic year | San Diego, CA

Early Research Scholars Program at UCSD

- Current research: Use Python to analyze 6G dataset in json and to construct an exercise model that predicts user exercise profile from exercise data inputs. The work will be incorporated into an exercise recommendation system that tells a user if it is the appropriate workout.
- Built a pipeline to extract data from the json file.
- Applied visual data analytics and exploited data interdependencies
- Filtered out misleading data and store meaningful data in the dictionary
- Utilized SVM, Confusion Matrix to build a classifier for different types of sports

**Personal Data Analysis Project**          12/2016 – Present | San Diego, CA

Using Amazon's fine food dataset to practice data mining

- The work will allow users to view interested information about the rated fine food
- Extracted and Processed data from 300M CSV files.
- Used Swing in java to implement GUI that defines data filters and aggregators.
- Utilized a chart drawing API in JFreeChart Library to visualize the data in the chart.

**Office Chat (group project) – Companies' Secure Chatting Tool Using IP Address**

Software Engineering Class, Foothill College          04/2016 – 06/2016 | Los Altos Hills, CA

- Outcome: Allow secure communication between computers by using the private IP addresses given by the router instead of being connected to the Internet.
- Applied need-finding framework in HCI to design the "Calendar" feature: conducting interviews and survey in order to make calendar easier to use.
- Utilized Swing framework to implement the calendar that receives and stores real-time messages from the user input in the chat window.

## ACTIVITIES

**Math Teaching Assistant**          01/2016 – 06/2016 | Los Altos Hills, CA

MathMyWay Program at Foothill College

- Tutored a class of 40 students to help with understanding Math
- Helped maintain at least 90% passing rate in more than 10 exams

## PROFESSIONAL SKILLS

- Programming Language: Java, Python, HTML/CSS
- User Interface Design, Data Analysis