Heidi Chen

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Education

STANFORD UNIVERSITY | CLASS OF 2020

· Major: Computer Science
· GPA: 4.0
· Relevant coursework: Artificial Intelligence, Social Network Analysis, Natural Language Processing, Computer Systems, Computer Graphics, Computational Journalism

Skills

PROGRAMMING EXPERIENCE

· Proficient in Java, C++/C#/C, Python, SQL, MATLAB
· Experience in JavaScript, HTML

Work Experience

EXPLORER INTERN | MICROSOFT AI + RESEARCH | SUMMER 2018

· Developed back-end of testing tool for Bing ranker experimentation; extracted and processed data to reveal breakdown of results for varying markets and search queries.
· Designed calculations on analytics summary for interleaving and A/B scorecards.
· Simulated A/A experiments in Python using historical data to compare different metric-aggregations.

ROBOTICS RESEARCH INTERN | STANFORD ROBOTICS LAB | SUMMER 2017

· Programmed robot applications in C++ for state machine-based active force control experiments with 5-DOF f-MRI compatible haptic device.
· Wrote scripts to process, analyze, and model fMRI data in MATLAB and Python.

SECTION LEADER (TA), CS 106 | STANFORD COMPUTER SCIENCE | SEPTEMBER 2017 – PRESENT

· Led interactive discussion sections with 13 students, operated debugging and help hours for program of over 1300 students, and graded projects and exams.

BIOENGINEERING RESEARCH INTERN | UNIVERSITY OF CALIFORNIA, IRVINE | SUMMER 2015

· Programmed a MATLAB script to quantify the shape of the nasal base for surgical purposes; program included a GUI for users to trace points along an image as well as an automatic curve-fitting process.
· Paper published in JAMA Surgical.

Projects

DETECTING GENDER BIAS IN PATIENT EVALUATIONS OF PHYSICIANS | MARCH 2018 - PRESENT

· Developed NLP program in Python to detect gender bias in database of 40,000 patient comments paired with quantitative surveys. Paper in progress.

WEB APP IN JQUERY | TREEHACKS 2017

· Programmed web game simulating the animal adoption process.

Leadership & Activities

CAMPUS ORGANIZATIONS

· *2017 – Present:* Organizing Co-Chair for Listen to the Silence (Asian-American Issues Conference).
· *2017 – 2018:* Outreach Coordinator for Stanford Society of Women Engineers.
· *2016 – Present:* Designer and webmaster for *STATIC Zine,* an activist Stanford publication.
· *2016 – Present:* Co-President and Dancer of XTRM Stanford K-pop. Placed 3rd in K-pop World Festival SF 2017 Prelims and 2nd in SF K-pop X K-pop Battles Season One.