Jodie Ma

jodiemaxf@gmail.com | 408-981-8208 | jodiema.github.io

EDUCATION

California Polytechnic State University, San Luis Obispo, CA   Expected Graduation June 2020
Bachelor of Science in **Computer Science**, GPA: 3.58
Relevant Coursework
Fundamentals of Computer Science I-III (Python, Data Structures & Algorithms, Java), Computer Organization (Assembly & C), Statistical Methods for Engineers (R), Systems Programming (C)

COMPUTER SCIENCE EXPERIENCE AND PROJECTS

NASA Ames Research Center, Mountain View, CA
Data Analysis Intern   Jun 2017 - Jul 2017
- Worked on the spectrum collision functionality of the NIRCam and MIRI instrument for the James Webb Space Telescope using Python
- Assisted another intern in debugging an error calculation program and making it more efficient
- Modified programs to be more user-friendly to the scientific community by organizing astronomical data and converting two exoplanet spectrum programs from C to Python

Winter Wonderland Game, San Luis Obispo, CA   December 2016
- Collaborated with a team of four to develop a Christmas-themed game which involved Santa shooting candy canes at evil snowmen
- Programmed the character movements and designed the game intro using Javascript and HTML

Stanford University School of Medicine, Stanford, CA
Bioinformatics Intern   Jun 2015 - Aug 2015
- Utilized proprietary tools to perform statistical analysis on specific transcription factor binding sites that regulate gene expression
- Processed genetic data and analyzed the histone modifications of hematopoiesis and executed multiple tests to ensure the accuracy of the data

SKILLS

Technical
- *Languages:* Python, Java, C, Assembly (LC-3), HTML, CSS, Javascript (processing.js)
- *Other*: UNIX, Vim, Git

Foreign Languages
- Mandarin Chinese (fluent), French (intermediate)

OTHER EXPERIENCE

Women Involved in Software and Hardware, San Luis Obispo, CA
Tech Officer   May 2017 - Present
- Plan technical events such as virtual reality, microcontroller workshop, and quarterly projects

C0D3X Club (Computer Science Club), Piedmont Hills High School, San Jose, CA
Co-President   Aug 2015 - May 2016
- Organized activities and updated the club website with upcoming coding events in the Bay Area
- Developed proper coding instructions to teach the basics of programming after school

The Tech Museum of Innovation, San Jose, CA
Robotics Volunteer   Oct 2014 - May 2016
- Interacted with guests by controlling and speaking through a robot
- Educated museum visitors on robotics and technology