

Jodie Ma

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EDUCATION

California Polytechnic State University, San Luis Obispo, CA Expected Graduation June 2020
Bachelor of Science in **Computer Science**, GPA: 3.54

Relevant Coursework

Fundamentals of Computer Science I-III (Python, Data Structures & Algorithms, Java), Computer Organization, Systems Programming (C), Statistical Computing with R, Computer Architecture

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

COD3X 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