

Kaitlin Hsu

[LinkedIn](#) | khsu22@stanford.edu | 13930 Ravenwood Dr, Saratoga, CA 95070

EDUCATION

Stanford University

Stanford, CA

Bachelor of Science in Computer Science, English

Expected June 2022

Relevant Coursework:

CS 229 (Machine Learning); CS 110 (Principles of Computer Systems); CS 274 (Representations and Algorithms for Computational Molecular Biology); Math 104 (Applied Matrix Theory)

The Harker School

San Jose, CA

GPA: 4.4/4.0

May 2018

- Editor-in-Chief of CSPA Gold Crown and NSPA Pacemaker-winning newspaper (top 15%)
-

COMPUTER SCIENCE EXPERIENCE

Pinterest

San Francisco, CA

Software Engineering Intern

June 2021 - September 2021

- Revamped feature analysis pipeline on the machine learning platform team using Python, SQL, Spark, and Scala, deprecating reliance on Jupyter Notebook
- Updated web UI for pipeline in Javascript and React

Apple

Cupertino, CA

Security Engineering & Architecture Intern

March 2021 - June 2021

- Developed pipeline and web UI for surfacing new app notarization tickets, using Python, Flask, React and Javascript
 - Launched network resources in AWS Cloudformation, such as Lambda functions and a VPC subnet
-

LEADERSHIP AND CO-CURRICULAR ACTIVITIES

Stanford Computer Science Department

Stanford, CA

CS 198 Section Leader

January 2020 - March 2021

- Acted as a teaching assistant for Stanford's introductory computer science classes: CS106A, CS106B, CS106X, and CS106L, taught in Python and C++
- Taught a discussion section with 10-15 students

Pachter Lab, California Institute of Technology

Pasadena, CA

Project Kallisto Intern

Summer 2017 - Present

- Expanded the scope of existing C++ software to align RNA reads at near-optimal speeds in microbes as well as mammals, generalized further to distinguish between different kinds of RNA
 - Implemented Smith-Waterman, Needleman-Wunsch, expectation-maximization, and Hirschberg's algorithm in Python
-

SKILLS & INTERESTS

- Graphic Development: HTML/CSS, Javascript, p5.js, Node.js, Adobe Creative Cloud
- Languages: C++, Python, R, Java, Mandarin Chinese, Japanese (business)