

CRYSTAL WANG

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EDUCATION & SKILLS

University of California, Berkeley *August 2019 - May 2023*

B.A. Candidate in Computer Science & Linguistics

GPA: 3.9/4.0

- Relevant Coursework: Data Structures, Designing Information Devices and Systems, Principles & Techniques of Data Science, Computer Architecture (Fall 2020), Discrete Mathematics & Probability

Programming Languages: Python, Java, HTML/CSS, JavaScript, C (Fall 2020), SQL, Linux

Technologies & Data: Git, AWS, GCP, pandas, Jupyter, NLTK, numpy

EXPERIENCE

Vurbl Media | Software Development Intern

June 2020 – August 2020

- Designed and implemented a speech-to-text transcription pipeline for audio files (AWS Lambda, S3, Transcribe; Google Cloud Storage; PostgreSQL)
- Drafted a workflow to track transcription errors for audio snippet project & media tagging system
- Staged timed tests to compare efficiency of AWS and GCP's respective transcription APIs

VATT | Founder

October 2019 - present

- Built a SaaS application that automatically dubs and subtitles videos to and from target languages supported by Google with 85%+ accuracy (GCP)
- Conduct user interviews and work with online content creators to facilitate connections with their increasingly global target audiences as part of Dorm Room Fund's Female Founder Track 2020 Cohort (3% acceptance rate), a 1517 Fund grantee, and Cal Hacks Fellow

UC Berkeley | Undergraduate Researcher

January 2020 - present

- Performed data analysis and created visualizations from school archives about Asian American women to depict trends over time within faculty, the student body, and other university staff (Python)
- Phonetically transcribe recordings of the Kuy, Thro, and So Thavung languages and perform forced audio-text alignment (Python, Jupyter, Praat, ELAN) (Fall 2020)

PROJECTS

Translate Customization | Adjusted translations by gender & respect

August 2020 - present

- Developed a program to allow customization of gender & respect levels (Python, GCP)
 - Improves contextual translation accuracy from English to Hindi between speaker and audience

enigma! | Chrome extension text scrambler

August 2020 - present

- Reimagined the Enigma encryption machine as a Chrome extension (JavaScript, HTML/CSS)
 - Encodes webpage text according to given configuration and alphabet permutation settings

Gitlet | Simplified Git with new commands

April 2020

- Built a program that mimics basic features of the version control system Git (Java)
 - Obeys novel commands not available in regular Git (ie. find commit by commit message)

LEADERSHIP & ACTIVITIES

UC Berkeley EECS Department | Tutor, Academic Intern

July 2020 - present

- Assist in labs, host tutoring sections, support Berkeley's Computer Science Scholars program

CS Kickstart | Curriculum Developer

December 2020 - August 2020

- Created Jupyter notebooks to introduce 90 incoming freshmen women to college data science classes

Cal Raijin Taiko | DeCal Facilitator & Performer

October 2019 - present

- Perform in UC Berkeley's taiko drumming ensemble, teach student-led class about taiko (Spring 2021)