

Juliette Chirol Hill

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EDUCATION

University of Southern California - <i>Summa Cum Laude</i> , B.S. in Computer Science, 3.989 GPA	Dec 2020
UC-San Diego - "Cognitive Science," 3-week residential program, 3-credit college course	July 2013
CSU-Fullerton - "Digital Illustration" (ART 363B) 3-credit college course	Aug 2013
Troy High School , Fullerton, CA - <i>Valedictorian</i> , International Baccalaureate (IB) graduate	May 2017

WORK EXPERIENCE

Microsoft Corporation - Redmond, WA May 2019 - Present

Software Engineer, Office Engineering and Dynamics 365 (March 2021 - Present)

- Reduced lag time to load enterprise product, Dynamics 365 Contact Center experience (React, PCF Controls)
- Created dashboards to monitor retention, usage, and growth of Office products (React, Kusto)
- Participated in designing merge conflict resolution for Excel collaborative spreadsheets (C++)

Software Engineering Intern, Excel Engineering (2020)

- Implemented code to reduce overcrowding of presence bubbles on shared spreadsheets (C++)

Explore Intern, Bing Engineering (2019)

- Co-built internal app to display data to boost efficiency of diagnosing site rankings (C#, Angular JS)

USC Computer Science Department - Los Angeles, CA Aug 2018 - Dec 2020

Course Producer (undergraduate "teaching assistant")

- 5 semesters and 2 courses: CS-270 Algorithms & Theory of Computing, CS-170 Discrete Methods
- Led algorithms discussion section with another course producer to a class of over 80 students
- Assisted professor for weekly in-class workshops, guiding students to mathematically solve challenge problems
- Held weekly office hours; participated grading midterm and final exams

USC American Language Institute - Los Angeles, CA Jan - Apr 2018

One-on-One Language Partner

- Helped international graduate students improve spoken English by applying language acquisition research

California Scientific Acupuncture Medical Center Inc. - Whittier, CA July 2017 - Aug 2018

Medical Assistant

- Assisted three doctors treating patients (15 to 40 a day); communicated in Mandarin to Chinese clientele

WEB & MOBILE APP PROJECTS - See full list on [jchirolhill.github.io](https://github.com/jchirolhill)

Language & Education Projects (Solo)

Pronunciation and Ear Trainer, Tatoeba Language Database Aug 2024

- Built Chrome extension to record and playback user voice to compare with native audio

Mandarin Vocabulary Highlighter by HSK Level Aug 2022

- Created React app to highlight HSK vocabulary in Chinese text based on the user's HSK proficiency level

Automatic Vocabulary Card Creator for Anki, "AutoCard" June 2022

- Built Chrome extension to automatically generate Anki flashcards from a Chinese-English dictionary website

Language Correction Formatter Aid, "Emerge" May 2021

- Built React app to organize italki.com corrections line-by-line for efficient comparison
- Developed accompanying Chrome extension to automate copying and pasting corrections

Language Tips Chatbot & Language Learning Exercises Generator, "Toki" Android App Mar 2019

- Built chatbot app to provide tips for language acquisition, based on cognitive science research (Java)

Vocabulary Acquisition Through Music, "Word2Song" Mar 2019

- Developed a full-stack web app to fetch songs from a lyrics API to teach vocabulary in context (jQuery, PHP)

Spaced Repetition Schedule Generator for Weekly Courses Jan 2019

- Built website to generate study schedules for weekly courseload using Ebbinghaus's Forgetting Curve (jQuery)

Team Projects

CSU-Fullerton Virtual Graduate Art Show May 2020

- Built scalable website to host graduate student art with visual assets provided by graphic designer

Los Angeles Fire Department Lifeguard Report – USC Capstone Project April 2020

- Consulted with LA lifeguards and built Laravel web app to streamline their beach reports

Hackathon Projects

2nd Place Rose Hacks MLH Hackathon – “One More Light” C++ Game Jan 2020

- Developed in close partnership with illustrator

1st Place ACM (USC Chapter) Hackathon – “WeFood” Web App Oct 2018

- Designed and developed front-end interface in close collaboration with back-end engineer

RESEARCH

Endangered Language Documentation for Ladin (Northern Italian Dialect) May – June 2018

- Recorded and transcribed words and phonemes (Praat software) during USC linguistics summer course directed by Dr. Khalil Iskarous

Southern California Conference for Undergraduate Research Oral Presentations

- Nov 2017: “Integrating Cognitive Science and Computer Science to Transform Language Learning”
- Nov 2016: “Analyzing the Portrayal of Westerners in Indian Cinema”

UC San Diego Cognitive Science Department Research Assistant Intern May – July 2016

- Assisted PhD student, Rose Hendricks, with research on the function of metaphors on thought and perception
- Ran experiments with subjects for data collection; analyzed body language data in videos (Elan software)

LANGUAGES

English (fluent), French (fluent), Mandarin (upper intermediate), Italian (intermediate), Hindi (lower intermediate)

ACTIVITIES & VOLUNTEERING

Microsoft “The New Technologists (TNT)” Program Volunteer Summers 2022 - 2024

- Mentored and mock interviewed students one-on-one, providing interview prep coaching
- Supervised team of 5 students in their project using computer vision to help the visually impaired exercise safely

Online Language-Learning Intl. Community Content Contributor and Practice Partner 2016 - present

- Taught English and French to foreigners for help in Mandarin, Hindi, Russian, and Italian (Skype, italki.com)
- Answered questions and corrected grammar on online language forums (italki.com, Lang-8.com, HiNative.com)

Dance: Ballroom, Bollywood (USC Zeher Team), Traditional Chinese, Ballet 2002 - present

- Taught over 24 introductory partner dancing classes with Microsoft Dance club (May 2023 – present)
- 11 performances; helped dancers learn choreography; volunteered backstage

USC Klein Institute for Undergraduate Engineering Life – Event Organizer Feb 2018

- Planned and hosted campus Engineering Week event