

Carol Tsai

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<https://www.linkedin.com/in/carol-tsai> | <https://github.com/carol-tsai> | <https://carol-tsai.github.io/developer-portfolio/>

WORK

GIS Analyst

Apex Systems

Sunnyvale, CA

Jun 2020 - Feb 2022

- Transitioning map address format to data driven templates as JSON files
- Reducing errors through automation, documentation, and standardized quality control over a wide range of data size, quality, and geography
- Resolving map formatting errors internationally through address templates

Student Technology Consultant

UC Berkeley Student Technology Services

Berkeley, CA

Aug 2019 – May 2020

- Assisted university residents with router set-up, registration, and troubleshooting
- Provided software and hardware support for students via walk-in appointments, emails, and phone calls
- Resolved first level security incidents including virus/malware removal and data recovery

Site Solutions Intern

Ramboll

Emeryville, CA

Jun 2019 – Aug 2019

- Prepared figures for groundwater modeling reports using ArcMap, ArcPro, and Python
- Conducted quality assurance and quality control for groundwater data
- Complied and verified groundwater elevation targets in a database

PROJECTS

TravelCheck

Javascript | <https://qkeddy.github.io/travelcheck/>

March 2022

- Web Application for providing COVID-19 and travel safety data to international travelers
- Utilizes server-side APIs to get relevant data and stores search history in local storage

Weather Dashboard

Javascript | <https://carol-tsai.github.io/weather-dashboard/>

March 2022

- Provides current and future weather data from the Open Weather API when you search for a city

Harry Potter Quiz

Javascript | <https://carol-tsai.github.io/harry-potter-quiz/>

March 2022

- Interactive quiz on Harry Potter trivia that stores scores in local storage

Categorizing River Networks into Functional Process Zones Using Geographic Information Systems

Senior Thesis | Riverine Ecosystem Synthesis, GIS, R

Fall 2019 - Spring 2020

- Conducted a literature review on the use of GIS for hydrology
- Modelled Salmon Creek Watershed geomorphology using Riverine Ecosystem Synthesis (Thorp, 2008)
- Presented results at the Environmental Sciences Symposium and as a written thesis

EDUCATION

University of California, Berkeley

B.S. Environmental Sciences

Minor in Geospatial Information Science and Technology

Graduated: May 2020

GPA: 3.7

SKILLS / INTERESTS / MISCELLANEOUS

Technical Skills: HTML, CSS, Javascript, jQuery, Bootstrap, Python, SQL, R, Java

GIS Skills: ArcGIS, ArcPro, QGIS, map making, Google Earth, ENVI, Remote Sensing

Foreign Languages: Mandarin (fluent speaking, basic reading and writing), French (basic)

Interests: Zero-waste living, running, gymnastics, swimming