

Sherry Fan

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EDUCATION

UC Berkeley (2019–23), B.A. Computer Science | B.A. Psychology; GPA: 4.0

EXPERIENCE

UC Berkeley — Head Teaching Assistant

JUNE 2020 - PRESENT

- Managed technical operations in head TA team for CS61A, a computer science course with 1800+ students
- Communicated with professors, tutors, and students to resolve 1000+ student tickets and questions; taught coding in Python/SQL/Lisp
- Supervised 100+ tutors to schedule online (Piazza) coverage and support students with code assignments

UC San Francisco — Research Assistant

MAY 2019 - PRESENT

- Designed and conducted research project on VR/AR and long-term memory using Unity-based game
- Scored and analyzed data from 500+ participants in Python and Excel; ran 100+ hours of participant training sessions and interviews

UC Santa Cruz — Research Intern

MAY 2018 - FEB 2019

- Created novel survey program with Python to automate over 100 interviews
- Interviewed participants and presented writing at university-wide research conference following internship

LANGUAGES AND SKILLS

Experienced: Python (NumPy, Pandas, scikit-learn), R (Shiny, dplyr, tidyverse, ggplot2, Leaflet), Java

Intermediate: SQL, HTML/CSS, JavaScript (React), Linux Bash/Shell

RELEVANT COURSEWORK

Computer Science: Data Structures and Algorithms, Structure and Interpretation of Computer Programs

Electrical Engineering: Designing Information Devices and Systems I/II

Mathematics: Research Methods and Statistics, Calculus

Data Science: Foundations of Data Science

PROJECTS

Neurotech @ Berkeley

SEPT 2019 - PRESENT

- Led software development team at NeurotechX in programming guidance hardware for EEG controlled-car
- Coded in Python for feature extraction, classification, signal processing algorithms
- Built classifier at 80%+ accuracy to predict seizures in epileptic patients

Data Science For All (DS4A)

MARCH - JUNE 2020

- Spearheaded data science project to identify quantitative factors in workplace mental health using regression, random forest at 90%+ accuracy
- Received training in machine learning (ML), NLP, analytics with Amazon Web Services (AWS) & relational databases (SQL server)
- Synthesized presentation of mental health improvement plan to 10+ major tech employers

US Diplomacy Mapper

JULY 2020

- Full-stack development for web-based software for map application in the National Museum of Diplomacy
- Integrated backend features in Java including location search/autocomplete, routing algorithms, and clustering by topic keywords
- Designed frontend user interface (UI) for visualization of geolocation data and mobile application support

Explorer Game

MAY 2020

- Developed 2D tile-based game in Java with pseudorandom world generation, with focus on object-oriented design (OOD) and unit testing
- Implemented interactive features including random NPC encounters, saving/loading, and optimal pathfinding computation

UC Berkeley CS Kickstart

AUG 2019 - CURRENT

- Collaborated with curriculum committee to develop teaching materials for class of 100+ freshman women
- Designed modules in data science, electrical engineering, and web design

AWARDS

UC Berkeley Regents Scholar (2019): top 2% of students, \$10K scholarship

UC Berkeley CS Scholar (2020): outstanding achievement in CS (for underrepresented minorities)

American Chemical Society East Bay Award (2017): 1st place in regional chemistry competition