NANCY SHAW

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EDUCATION

B.A., Computer Science | University of California, Berkeley

GPA: 3.7 / 4.0 | AUGUST 2017 – MAY 2021

Coursework: Algorithms, Data Structures, Discrete Mathematics & Probability, Designing Information Devices and Systems (I&II)

Skills: Python, Java, SQL, HTML/CSS, Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro

EXPERIENCE

Head Undergraduate Student Instructor | UC Berkeley EECS Department

SUMMER 2018 - PRESENT

- Head TA of UC Berkeley's introductory CS Course (CS 61A) with over 2000 students
- Teach weekly 90-minute discussion sections and labs for 35 students, host office hours and one-on-one tutoring sessions. Manage logistics, review sessions, and exams for 2000+ students. In charge of managing 50+ TAs, 50+ staff tutors, and 300+ academic interns.
- Lead software development to improve UI of the course autograder (autograder.cs61a.org), used by CS courses at Berkeley and many other universities. Maintain and improve other various pieces of course software (course website, online office hours queue, exam seating-assignment app (flask), etc.)

PROJECTS

OKAuto | Python (Private Repo)

FALL 2018

- Lead team of five for front-end redesign of the course autograder (Flask) to create a user-friendly UI and implemented OAuth integration with Okpy.

Lagom | Javascript

SPRING 2018

- Built Chrome extension that uses webRequest API to block websites at timed intervals to encourage healthier work-life balance. Implemented time and website selection on front-end with HTML, CSS, Javascript, and JQuery.

2D Tile-based Game | Java (Private Repo)

SPRING 2018

- Independently designed a 2D tile-based game featuring pseudo-randomly generated maps. Implemented functionalities for game UI behavior and appearance and a game display only within line of sight

ACTIVITIES

Avionics Sub-team Member | CalSTAR

SPRING 2018 - PRESENT

- Built a tracking pinger which emits a frequency that can be tracked with a directional antenna, used for locating the rocket's location after landing from scratch.
- Designed solar-powered rover's schematic and PCB layout and programmed basic rover movement

Social Committee Lead | Women in Science and Engineering

FALL 2018

- Coordinated with tech-related speakers for seminar events including workshops, tech-talks, and seminars
- Pioneered mentoring program between approximately 80 graduate/postdoctoral students and undergraduates