

# PATRICIA TSE

Student ● Aspiring Software Developer

## CONTACT



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https://pktse.github.io/Portfolio/

## EDUCATION

University of California, Berkeley, CA  
Bachelor of Arts in Computer  
Science, expected 2023

3.83 GPA

*Regents' and Chancellor's Scholar*

**Courses:** *The Structure and Interpretation of Computer Programs; Data Structures; Efficient Algorithms and Intractable Problems; Machine Structures; Introduction to Artificial Intelligence; Computer Security*

## SKILLS



## PROFILE

I'm a junior at UC Berkeley pursuing a career in computer science. I have a passion for arts (whether that be digital or traditional) and learning new things (like skateboarding or guitar)!

## PROFESSIONAL EXPERIENCE

Feb 2020

- present

### Juni Learning

#### Computer Science Instructor

- Teaching Python and Scratch to kids aged 5-15, in groups of 1-4 students, covering the fundamental ideas behind computer science to recursion and sorting

May 2021

- August  
2021

### Amazon

#### SDE Intern

- Designed + created finite state machine to automate the process of refreshing and validating test accounts
- system takes a few hours to complete the task which originally took multiple days of manual work and is smart enough that it reduces Sev 2s resulting from invalid accounts

## EXTRACURRICULARS

June 2020

- present

### Convergent

#### Front-end Developer + UI/UX Designer

- Use HTML and CSS to create a website, Collayt, to connect students who want to do freelance
- Designing the UI/UX using Adobe XD
- Using Javascript, programming the back-end IDE for our crowdsourced algorithms website, Sotira

2019

### Phi Beta Lambda

#### Tech Committee Fall Analyst

- Analyzed Facebook data and APIs using Panda and Python to draw correlations between usage and user
- Created an algorithm that would generate an optimal table of time slots based on the preferences of members which was used by 65+ members
- Used Selenium and web scraping to automate the process of booking library study rooms

## PROJECTS



2020

### Chord-Generator

#### Java

- Programming the GUI and source code of a synth using my understanding of music theory to auto-generate 22 chords based on the inputted music key
- Working on adding an AI that would analyze the emotion of a piece of text and generate a chord progression that would reflect the mood