

PATRICIA TSE

Student ● Aspiring Programmer

CONTACT



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

EDUCATION

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

3.89 GPA

Regents' and Chancellor's Scholar

Courses: *The Structure and
Interpretation of Computer Programs;
Data Structures; Discrete Mathematics
and Probability Theory*

SKILLS

Python	<div><div></div></div>
Java	<div><div></div></div>
Javascript	<div><div></div></div>
HTML/CSS	<div><div></div></div>
XD	<div><div></div></div>
InDesign	<div><div></div></div>
Illustrator	<div><div></div></div>
Procreate	<div><div></div></div>

PROFILE

I'm a sophomore 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
- 2019**
San Francisco International Airport
Airport Intermodal Planner Assistant
 - In 10 weeks, researched and generated 6 reports on Airport transportation, commuter benefits, and needs for an employee commuter benefit kiosk
 - Analyzed data from surveys taken by over 1000 employees and more than 200 airport tenants

EXTRACURRICULARS

- June 2020 - present**
Convergent
Front-end Developer + UI/UX Designer
 - Programming a website to connect students who want to freelance their services to the community using HTML and CSS
 - Designing the UI/UX using Adobe XD
 - Creating artwork using Procreate
- 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