

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; Introduction to Database Systems*

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>

PROFESSIONAL EXPERIENCE



Feb 2020
- present

Juni Learning

Computer Science Instructor

- teach 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: Alexa Shopping

- design + create a smart finite state machine to automate the process of refreshing test accounts
- original process took multiple days of manual dev work but new fully-automated system takes at most 4 hours and is smart enough that it reduces Sev 2s resulting from invalid accounts and requires no manual work to run

EXTRACURRICULARS



May 2021
- Present

Regents' and Chancellor's Scholar Association

Web Development Committee Co-Coordinator

- use Bootstrap, HTML, CSS, and Javascript to implement a scholars-only portal on the RCSA (Regents' and Chancellor's Scholars Association) website
- help maintain the RCSA website which services 800+ active scholars
- plan workshops to teach committee members HTML, CSS, React, Javascript, etc.



June 2020 -
July 2021

Collayt

Front-end Developer

- use HTML, CSS, Bootstrap, Flask, Django, Google Cloud, Firebase to create a website to connect students who want to do freelance work or network
- part of LystenLab Incubator's first 2021 cohort and accelerator program at Convergent Berkeley

PROJECTS



2020 -
Present

Chord-Generator

Java

- create the GUI and logic of a synth using my understanding of music theory to generate 22 chords based on the inputted key
- working on a system that analyzes the emotion of text and generates a matching chord progression



2021

End-to-End Encrypted File Sharing System

Golang

- design + create a client application for a secure file sharing system using cryptographic concepts



2020

Gitlet

Java

- create a simpler version of Git with 18 commands