

# Shirley Xiao

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## Education

### University of California, Berkeley

August 2019 – May 2023

Bachelor of Arts in Computer Science

GPA: 3.48/4.0

*Relevant coursework:* The Structure and Interpretation of Computer Programs (CS61A), Designing Information Devices and Systems I (EECS16A), The Nature of Mind (PHILOS 3), Data Structures and Algorithms (CS61B), Linear Algebra and Differential Equations (MATH 54), Discrete Mathematics and Probability Theory (CS70; Summer 2020), Efficient Algorithms and Intractable Problems (CS170; Fall 2020)

### West High School • Torrance, California

September 2015 – June 2019

GPA: 4.55/4.0

*Awards & Honors:* National Scholastic Press Association Pacemaker Finalist (Yearbook), National AP Scholar

## Skills

**Programming Languages:** Python, Java, JavaScript, HTML, ReactJS, NodeJS

**Other:** Adobe Illustrator, Adobe InDesign, Adobe Photoshop

## Projects

### Scheme | Python

November 2019

- Developed an interpreter for the Scheme programming language
- Focused on functional programming, interpreters, built-in procedures, and lambda procedures

### Ants | Python

October 2019

- A single-player tower-defense game inspired by Plants vs. Zombies
- Focused on object-oriented programming to handle player attributes such as speed, defense, and power-ups

### Enigma | Java

March 2020

- A program that emulates the Enigma machines used by Germany in WWII to encrypt military communications
- Focused on data structures and object-based programming to encrypt and decrypt messages using cyclic permutations, performing a substitution cipher on each character

### Gitlet | Java

April 2020

- Developed a mini version-control system for local directories based on the basic features of Git
- Focused on serialization and hashing to give users functionality including committing files, restoring files/commits, viewing logs, and maintaining/merging branches

## Work Experience

### Alley Kitchens, Server/Cashier/Barista

January 2020 – March 2020

- Consistently sold \$750 or more in sales and independently served parties up to 12 in a fast-paced environment, with restaurant located close to college campus
- Developed exceptional customer service skills, POS (point of sale) computer knowledge, and food safety expertise

### South Bay Academy, Educator

June 2018 – August 2018

- Led educational crafting activities, from recreating Pixar scenes with geometry to studying ratios of Minecraft avatars, that made math a more approachable subject for children K-8
- Aided teachers in math, science, English, and music lessons