

Amber Xiao

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Education

University of Pennsylvania

Philadelphia, PA

BSE in Computer Science

2023 - 2027

- **Relevant Coursework:** Programming Languages and Techniques, Data Structures and Algorithms, Mathematical Foundations of Computer Science, iOS Programming, Introduction to Computer Systems, Big Data Analytics

Skills

Languages: C, C++, HTML/CSS, Java, JavaScript, Python, Swift

Tools: VS Code, Visual Studio, XCode

Design: Adobe CC (Illustrator, InDesign, Photoshop, Premiere Pro), Procreate, Figma

Personal Projects

PetSteps: <https://tinyurl.com/petstepsapp>

- Developed a fitness game in Swift using XCode aimed at encouraging users to exercise while having fun, targeting a wide age range

MineSweeper

- Designed and implemented a version of the classic Minesweeper game using Java

Colorectal Cancer Analysis: <https://tinyurl.com/colorectalcanceranalysis>

- Conducted a comprehensive data analysis of 150,000+ row dataset of patients diagnosed with colorectal cancer using Python

Personal Portfolio Websites

- Developed two personal websites to showcase [Computer Science](#) and [Illustration](#) work from scratch using HTML, CSS, and JavaScript

Work Experience

Various Employers

Philadelphia, PA

Personal Tutor

Jan 2023 - Present

- Delivered one-on-one tutoring to **3 students** (grades **2-9**) in writing and art, improving average grades by **1-2 letters**
- Designed customized lesson plans and learning strategies based on individual strengths
- Conducted **biweekly** sessions, reinforcing skills through targeted exercises and creative projects to boost confidence and engagement

Tous Les Jours Bakery and Cafe

Philadelphia, PA

Barista and Assistant Manager

Sept 2022 - Sept 2023

- Prepared **100+** specialty drinks and pastries daily, handled cash register operations and performed end of day reconciliation
- Trained **3+** new hires on using the POS system, drink preparation, and customer service protocols

VEX Robotics Summer Camp

Austin, TX

Coach

July 2021

- Guided and mentored **15** middle/high school students in designing, building, and programming competition-ready robots using VEX components.
- Led hands-on workshops on mechanical design, sensor integration, and autonomous coding
- Organized weekly robotics challenges to reinforce STEM problem-solving and teamwork, providing personalized feedback on robot performance and iterative design

Clubs and Organizations

UPGRADE

Philadelphia, PA

- Developer and artist for UPGRADE, the game development club at the University of Pennsylvania

Sept 2023 - Present

Pencilbite Studio

Philadelphia, PA

- Character artist for Pencilbite Studio, the student-run animation studio at the University of Pennsylvania

Sept 2024 - Present

Awards

Adobe Digital Edge Awards Winner 2024

Spotlight Award

- Won the Spotlight Award for creating PetSteps, a mobile fitness app designed to encourage exercise in a fun and engaging manner

National Honor Society 2022 - Westwood High School

- Member of the National Honor Society at Westwood High School, graduated early with 4.0/4.0 GPA