

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, Artificial Intelligence, Introduction to Human Computer Interaction, UX and UI Design

Skills

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

Tools: VS Code, Visual Studio, XCode, Google Colab, Jupyter Notebook, Github Desktop, Docker

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

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**

Art of the Web: <https://embrexin.github.io/artoftheweb>

- Created a series of 10 websites using **HTML**, **CSS**, and **JavaScript** to explore web design through an artistic lens
- Integrated creative, playful design with engaging interactive web elements

MineSweeper

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

Work Experience

Teaching Assistant – iOS Programming

Philadelphia, PA

- Supported instruction to **25+ students** in **Swift**, **Xcode**, and **UIKit** through labs, office hours, and project guidance
- Graded assignments and provided personalized feedback to strengthen students' coding and app design skills

Aug 2025 - Dec 2025

Various Employers

Philadelphia, PA

Personal Tutor

Jan 2023 - Present

- Delivered one-on-one tutoring to **3 students** (grades **3–9**) 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

Duet Inc.

Remote

Software Engineer Intern

June 2025 - Sept 2025

- Designed and developed two full websites from scratch, including:
 - A **Help Center** website for the Duet webapp to improve customer support resources
 - A **Conference website** to showcase Duet's upcoming industry event presence
- Built responsive, user-friendly front-end interfaces integrated with Duet's tech stack using **HTML**, **CSS**, **JavaScript**, and third-party plugins such as **Bootstrap** and **jQuery**
- Created UI/UX designs in **Figma** and translated mockups into production-ready code
- Conducted research on potential **AI feature integrations** for Duet to enhance user experience
- Collaborated with industry professionals to ensure branding consistency and smooth deployment

Tous Les Jours Bakery and Cafe

Philadelphia, PA

Barista and Assistant Manager

Sept 2022 - Aug 2025

- 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

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Clubs and Organizations

UPGRADE

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

Philadelphia, PA

Sept 2023 - Present

Pencilbite Studio

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

Philadelphia, PA

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