

# Amy Chen

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## EDUCATION

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- **Carnegie Mellon University** August 2024 – May 2028  
*Bachelor of Science in Computer Science* | GPA: 4.0/4.0 Pittsburgh, PA  
– Relevant coursework: Great Ideas in Theoretical CS, Mathematical Foundations of CS, Principles of Imperative Computation, Principles of Functional Programming
- **Worcester Polytechnic Institute** August 2023 – May 2024  
*Dual Enrollment* | GPA: 4.0/4.0 Worcester, MA  
– Relevant coursework: Discrete Math, Object-Oriented Programming, Algorithms, Functional Programming

## TECHNICAL SKILLS AND INTERESTS

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**Programming Languages:** Java, C#, C, Python, SML, Java Swing, HTML, CSS, Julia, Racket, LaTeX

**Developer Tools:** Unity, Git, Perforce, Android Studio, Visual Studio Code, Eclipse, Vim

**Soft Skills:** Leadership, Organization, Communication, Independence, Flexibility

**Tools:** Adobe Suite, Google Suite, Office 365, Trello, Gantt, Notion, Slack

**Areas of Interest:** Assistive technology, UI/UX, Game Development, Theoretical CS

## WORK EXPERIENCE

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- **TA, Great Ideas in Theoretical CS (15-251)** August 2025-Present  
*Carnegie Mellon, 5000 Forbes Avenue, Pittsburgh, PA 15213*  
– Working 15 hours/week while also balancing CMU classes and extracurriculars  
– Holding office hours and mentoring a 10 students to provide personalized academic support  
– Co-teaching 2 recitation per week, helping prepare test review materials, and planning class events
- **Programming TA, National High School Game Academy** June 2025 – August 2025  
*Carnegie Mellon Precollege and ETC, 700 Technology Dr, Pittsburgh, PA 15219*  
– Spent 3 weeks developing a 2-week curriculum on the basics of C# and Unity, and 6 weeks teaching students  
– Taught a production workshop to 40 students and served as a liaison between team producers and NHSGA faculty  
– Mentored 6 students and 2 6-person teams by checking in on them and providing academic and life advice  
– Regularly interacted with all 80 students when debugging code and mediating team conflicts.
- **Papa Gino's Team Member** March 2021 – June 2024  
*New England Authentic Eats, 164 Milk St Rt. 9, Westborough, MA, 01581*  
– Worked 10-15 hours/week during the school year and 15-20 hours/week over the summer.  
– Prepared orders in a timely manner solo on the grill and with others at the pizza oven.  
– Communicated with customers in person and over phone to take and serve orders.

## PERSONAL PROJECTS

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- **Pizzapocalypse** July 2023 – August 2023  
*Team Producer and visual artist | Unity, Perforce, Github | 2023 CMU NHSGA Project*  
– Pitched and produced a mobile game with racing elements created in Unity and published on the IOS App Store  
– Delegated tasks to a team of five, organized a three-week timeline, and animated game sprites and environments
- **Scopey: An Affordable Robotic Feeding Device For Mobility Restrictions** February 2023 – October 2023  
*Designer, engineer, and document author | OnShape | Assistive tech group project*  
– Engineered and built an assistive feeding device to pick up food and bring it to the user autonomously  
– Researched competitors and collaborated in a team of eight along with a client with mobility restrictions
- **Launchguide** March 2023 – April 2024  
*Team leader, full-stack developer | Android, Keras | 2024 Congressional App Challenge Winner*  
– Developed an ML-powered mobile app to notify visually impaired users of crosswalk signals at street intersections  
– Led a group of three and worked in collaboration with Walkfit, a Worcester nonprofit for the visually impaired  
– Congressionally recognized by Rep. Jim McGovern and selected to present at the US Capitol
- **Using a Mathematical Model to Personalize Keyboards for Users Missing Digits** August 2022 – April 2023  
*Independent research project | Java | 2023 WRSEF Honorable Mention, MSEF Participant*  
– Independently analyzed typing trends and prior literature to code a mathematical model to theorize keyboard layouts to improve typing speed and comfort for users missing digits  
– Presented at both the Worcester Regional and Massachusetts Science & Engineering Fair to a panel of judges

## SELECTED AWARDS

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- Congressional App Challenge Certificate of Achievement and Congressional Recognition April 2024
- Cyberpatriot XVI Platinum Tier 1st Place State Award March 2024
- NCWIT Aspirations in Computing High School Regional Award Winner February 2024