

Emma Y. Jiang

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Education

Carnegie Mellon University, Pittsburgh, PA **2020 – 2024**
Bachelor of Science in Information Systems QPA: 3.70
Minor in Computer Science

Palo Alto High School, Palo Alto, CA **2016 – 2020**
Weighted GPA: 4.34

Relevant Coursework

Introduction to Computer Systems (current)
Database Design and Development (current)
Great Ideas in Theoretical Computer Science

Principles of Functional Programming
Principles of Imperative Computation
Matrices and Linear Transformations (current)

Concepts of Mathematics
AP Computer Science - 5
AP Calculus BC - 5

Experiences

Research Assistant, CMU Human-Computer Interaction Institute

July 2021 – Present

- Studied ways to address the relevance constraint through conversations involving AAC users under Stephanie Valencia-Valencia
- Brainstormed website features and coded prototypes with text-to-speech and chatting features using Socket and Node.js

Research Assistant, CMU Human-Computer Interaction Institute

January 2021 – July 2021

- Researched personal informatics to support teaching at the university level with Franceska Xhakaj and assisted with writing thesis
- Designed and implemented prototype dashboards with Figma, worked through iteration process based on feedback
- Built interview protocol, recruited participants, ran interviews, and performed thematic analysis on the data

Producer, Programmer, and Artist, CMU Game Creation Society

August 2020 – Present

- Managed a team of a dozen programmers, assigned tasks, and followed up on progress to ensure the team was on track
- Coded environmental effects, visual effects, and environmental decals in Unreal Engine; implemented VR gameplay features in Unity
- Drew concept art for attacks and environment in Procreate, created character animations and combat animations in Maya

Design Lead, Strategy and Scouting Lead, FIRST Robotics

August 2016 – May 2020

- Brainstormed robot designs with a team and modelled it through computer aided design in Solidworks
- Organized scouting, analyzed scouting data, and created match strategies with other teams at competitions

Ecological Research, Glacier Institute, Montana

June 2019

- Studied influx of Mountain Pine Beetle in Glacier National Park through field-based observations
- Presented a solution to the Glacier Institute to curb the beetles' decimation of over nine million acres of forest in Montana

Projects

Hack CMU

September 2020

- Designed a website using HTML/CSS and JavaScript to allow synchronous video watching on different devices with support for Discord

CMU x Citi Hackathon

October 2020

- Analyzed trends in stock trading and used Pandas to create simple regressions to identify the occurrence of several methods of spoofing

Extracurricular Activities

Mentor, Women in IS Peer Mentoring Program

August 2020 – Present

- Advised incoming IS freshmen girls in navigating college life and planning career and future

Managing Editor, The Paly Voice

January 2018 – May 2020

- Wrote news and multimedia articles, organized in-class activities, coordinated article assignments, and inspired staff

Skills

Technical Skills: C, HTML, CSS, Java, JavaScript, SQL, Python, C#, Unity, Unreal Engine, Figma, R, Solidworks

Additional Skills: Research, Project Management, Team Leadership, Communication, Creativity

Languages: English, Chinese

Honors

Best Live Demo at Hack CMU 2020

California High School Communications Contest Winner in Movie Reviews 2019

Crown of the Continent Award for Ecological Conservation 2019

FIRST Robotics Award for Creativity in Design 2016

National AP Scholar 2020