Emmaline Mai

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Education

Carnegie Mellon University, Pittsburgh, PA | B.S. Computer Science 2023
- Relevant courses: Principles of Imperative Computation, Principles of Functional Programming, Introduction to Computer Systems, Concepts in Artificial Intelligence, Matrices and Linear Transformations

Lynbrook High School, San Jose, CA | 2019

Work Experience

Teaching Assistant | Carnegie Mellon University 15-112 course | spring, summers 1&2 2020
- Working with other course staff to teach recitations, labs, and review sessions, hold office hours and hackathons, and mentor students through their term projects

Assistant Instructor | Galileo Learning | summer 2019
- Worked with instructors to teach kids to create their own IOS apps and 3D digital animation projects

Teaching Assistant | Digital Media Academy | summer 2018
- Worked with instructors to teach coding/AI concepts, robotics, digital animation, and electronics

Leadership Experience & Activities

Roboclub | RobOrchestra Hardware & Software Team Member | 2019-present
- Building a robotically played ukulele, generating music using Markov chains

CMU Sweepstakes Buggy Team | fall 2020 – spring 2021 Shop Assistant | 2019-present
- Help build new buggies and maintain past buggies for races

FIRST Robotics Competition | Mechanical & Animation Director | 2015-19
- 2016-19 Regional Chairman's Award Winner, 2019 Regional Winner, 2017 Championships Subdivision Winner
- Led a team to design and build an elevator mechanism for the robot to climb onto an elevated platform

Elementary School Game Coding Club | Founder & President | 2017-19
Girls Who Code Club | Intern & Treasurer | 2015-19
- Taught 100+ middle school students each year to code with HTML/CSS and JavaScript

Tech Museum of Innovation | Volunteer Exhibit Interpreter | 2017-19

Skills

Python (OpenCV), C, SML, Java, SolidWorks, Android Studio, Autodesk Maya

Projects

ELM (Enrich, Learn, Motivate) Android app | Hackathon Project | 2020
- Manages a database and instantly connects tutees with tutors for any subject through a video call session
- Includes a feed where users can publicly post their progress

Square Jumper platformer game| Term Project | 2019
- Uses OpenCV color detection, modified Dijkstra's algorithm for enemy pathfinding, leaderboards

CMU Personalized Dining Android app | Hackathon Project | 2019
- Tracks GPS location and uses user preferences to generate a ranked list of recommended dining locations

Awards

Carnegie Mellon University Dean's List | fall 2019
NCWIT Award for Aspirations in Computing National Honorable Mention & Affiliate Award | 2019
Girl Scouts Gold Award | 2018
- Combated lack of youth interest in STEM by founding a youth coding club