

EDUCATION

Carnegie Mellon University

May 2023

Pittsburgh, PA

- B.S. Computer Science, Minors in Robotics and Media Design
- GPA: 3.75
- Relevant courses: Parallel & Sequential Data Structures & Algorithms, Designing Human-Centered Software, Algorithm Design & Analysis, Functional Programming, Computer Systems, Theoretical Computer Science

Lynbrook High, Valedictorian

June 2019

San Jose, CA

EMPLOYMENT

Automation Controls Engineering Intern

Summer 2021

Tesla, Inc.

- Helped bring a pilot production line to the start of production by developing machine controls with PLC ladder logic, interfacing with the Manufacturing Execution System, and designing HMIs (Human-Machine Interfaces)

Teaching Assistant

Spring, Summers 1&2 2020

CMU course 15-112: Fundamentals of Programming and Computer Science

- Worked with staff to teach recitations, labs, and review sessions, and hold office hours and hackathons
- Mentored 15 students through their term projects

Assistant Instructor

Summer 2019

Galileo Learning

- Taught classes of 30 kids to make projects with 3D digital animation and IOS development

PROJECTS

Cardistry Dashboard

2021

Python (Flask), JavaScript (React), SQL

- Designed and managed a database hosted by Microsoft Azure to track cardistry (playing card flourishing) moves
- Built a Markov chain to generate suggested move combinations based on user-defined sequence parameters
- Developed a tutorial recommendation system based on moves currently learned using the YouTube Data API

ELM (Education, Learn, Motivate) app

2020

Java (Android Studio)

- Interfaced with a database for user accounts to eventually connect tutees and tutors through a video call session

SKILLS

Proficient: Python, C, Standard ML, ladder logic (Allen-Bradley), HMI programming (Ignition)

Basic: MATLAB, Java, C++, SQL

ADDITIONAL ACTIVITIES & AWARDS

Research Assistant

2020 - 2021

CMU Biorobotics Lab

- Ran experiments, presented work to the lab, and developed a directional compliance strategy for autonomous snake robot locomotion through 2D obstacles using MATLAB

Hardware Lead & Software Team Member

2019 - Present

CMU RoboClub

- Designing and building a robotically played ukulele using Arduino
- Processing data from computer vision for detecting tempo from human conducting

Mechanic

2019 - Present

CMU Sweepstakes Team

- Helping to construct new buggies (unmotorized carbon fiber vehicles) and maintain past buggies for races

Carnegie Mellon University School of Computer Science Dean's List

Fall 2021, Fall 2019

NCWIT Award for Aspirations in Computing National Honorable Mention & Affiliate Award

2019