

# Zhiyang Zuo

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## EDUCATION

### University of Massachusetts Amherst

Amherst, MA

*Candidate for Bachelor of Science in Computing & Informatics*

*Expected Graduation: May 2024*

**Coursework:** Calculus II and III, Computer Systems Principles, Programming Methodology, Introduction to Computation

### Bunker Hill Community College – Dual Enrollment

Boston, MA

**Coursework:** Statistics I, Calculus I, Advanced Java Programming, Data Structures

## PERSONAL PROJECTS

### Daily App

*December 2020 - January 2021*

- Created a Python Flask web app and deployed it on Heroku to help users keep diaries and track weather and time
- Utilized Open Weather Map API and python request module to retrieve accurate weather data based on zip code
- Designed and implemented a data model to store and query user data efficiently on a remote PostgreSQL database
- Implemented email-based authentication and password hashing+salting to ensure user account security
- Utilized the Bootstrap framework and CSS media queries to make the website interactive and mobile responsive

### Mclip Plus Plus

*October 2020*

- Created a Python command line clipboard app that allows users to store and access texts in a key-value model
- Automated text retrieval process using the pyperclip module to copy the desired text directly to the user's clipboard
- Simplified program calling using a custom batch script, shortening user commands by 50%

## EXPERIENCE

### YMCA

Malden, MA

*Youth Leaders Club*

*February 2018 – January 2020*

- Assisted at the monthly food drive to ensure proper food distribution
- Organized 10+ community events to improve community relationships

### Zero-Robotics Program Instructor

*June 2019 – July 2019*

- Co-taught programming and physics to 30+ elementary school students to prepare them for the Zero Robotics state competition in which they placed 2nd and 3rd
- Oversaw 2 hands-on projects and 1 field trip to ensure student safety

### Sacred Valley Project

Ollantaytambo, Peru

*Volunteer*

*August 2019*

- Participated in a 30-hour project to create a vegetable garden that provides healthy food for the project
- Renovated a classroom that provides education to indigenous children

## ACTIVITIES

### Computer Club

Malden, MA

*September 2017 - May 2019*

- Participated in weekly meeting/discussion about computer hardware and software
- Competed in the MA Hacks hackathon and developed a Twitter bot that utilizes the Twitter API and Python web scraping to share information about new movies to Twitter

### Malden High School Math Team

Malden, MA

*September 2019*

- Competed monthly in the Massachusetts Math League Meets
- Placed 2nd out of 7 schools in the Division III competition

### Advent of Code

Online Event

*December 2020*

- Participated virtually in daily coding challenges to improve coding skills
- Ranked 4th out of 27 in UMass Amherst private leaderboard

## SKILLS

**Programming language:** Java, C, Python, JavaScript, HTML, CSS, SQL

**Software:** IntelliJ, VSCode, Vim, Git, Microsoft Excel, Word, PowerPoint

**Language:** Fluent in Cantonese and Mandarin