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*

Bunker Hill Community College – Dual Enrollment   Boston, MA

PERSONAL PROJECTS

Personal Website (https://zzuo123.github.io/)   *January 2021 – Ongoing Project*
- Programmed using JavaScript, HTML, SASS to showcase personal projects and experiences
- Utilized JavaScript libraries such as swiper.js to deliver a smooth user experience
- Improved my UI design skill by learning and using the Figma software to design the website

Daily App (https://daily-app-twd.herokuapp.com/home)   *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 and salting to ensure user account security
- Utilized the Bootstrap framework and CSS media queries to make the website interactive and mobile responsive

EXPERIENCE

Stoke Therapeutics   Bedford, MA
Bioinformatics Summer Intern, Platform Discovery Department   *June 2022 – August 2022*
- Implemented an RNA-Seq QC pipeline using AWS, Docker, and Snakemake to automate the processing of High-Thruput RNA sequencing data and generate a detailed and readable HTML report using MultiQC
- Performed tests to assess the efficiency of popular RNA-Seq QC tools and developed a python script to automatically configure AWS cloud computing resources for the pipeline based on the data size and tool used to minimize cost and maximize efficiency

Biogen   Cambridge, MA
Summer Intern, Technical Product Complaint Department   *June 2021 - August 2021*
- Designed and implemented a product defect knowledge wiki on Confluence with a global team of subject matter experts that increased team efficiency by 15% and enabled the department to retain key knowledge essential for team functioning
- Created Python program to extract common wordings from past 10k+ customer complaints for new-hire training
- Automated an excel index match process using Python and the Pandas library to standardize data processing and increase efficiency

YMCA   Malden, MA
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

ACTIVITIES

Advent of Code (Global Annual Coding Challenge)   Online Event
- Participated virtually in daily coding challenges to improve competitive programming skills   *December 2020*
- Ranked top 15% in the UMass Amherst student leaderboard

Computer Club   Malden, MA
- Participated in weekly meetings/discussions about computer hardware and software   *September 2017 - May 2019*
- 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

SKILLS

Programming language: Python (advanced), Java (advanced), C (intermediate), JavaScript (intermediate), SQL (intermediate)
Frameworks: Node.js, PostgreSQL, Flask, Bootstrap, BeautifulSoup, REST API
Technology: Version Control (Git & GitHub), Unit Testing, Heroku, Bash Scripting, Figma, Raspberry Pi, Confluence
Language: English (proficient), Mandarin (native), Cantonese (native) Spanish (intermediate)