

Tianyi Zheng

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Education

University of Pittsburgh, Pittsburgh, PA Aug 2020 - Apr 2024
B.S. Computer Science GPA: 3.73/4.0

- Relevant Coursework: Algorithms, Data Structures, Systems Software, Computer Organization, Theoretical Computation, Discrete Structures, Calculus 1/2/3, Statistics

Experience

University of Pittsburgh, Pittsburgh, PA Jan 2021 - May 2021
Undergraduate Teaching Assistant — CS 0441 (Discrete Structures for CS)

- Develop practice problems for students to review lecture topics
- Lead weekly recitations to go over practice problems
- Hold weekly office hours to provide additional support to students

Projects

patientPrep (HTML, SASS, TypeScript, Ionic, AngularJS) **GitHub:** [git.io/JkvQ4](https://github.com/tianyizheng02/patientPrep)

- Prototyped a health literacy app with a team for The Pitt Challenge hackathon
- Learned mobile front-end development using JavaScript frameworks
- Implemented user interface and basic app functionalities

PeopleSoftBot (Python, PittAPI)

- Developed a Discord bot that retrieves data from Pitt's student information system
- Learned web scraping and HTTP requests using Python
- Provided Pitt students with convenient access to course information

Text File Compressor (C++)

- Implemented a lossless compression algorithm to compress text files
- Learned file I/O and bit manipulation in C++
- Compressed text files by up to 40%

Game of Life (JavaScript, p5.js)

- Implemented Conway's Game of Life in a web browser
- Learned how to create visuals using the p5.js JavaScript library
- Generated a toroidal game grid that allows custom starting states

Skills

Languages: C++, Python, Java, HTML, CSS **Technologies:** Git/GitHub, LaTeX, Vim

Activities

The Pitt Challenge Hackathon — 1st Place in Mobile Health Records Oct 2020
Kappa Theta Pi (Professional Technology Fraternity) Sep 2020 - Present
Pitt Computer Science Club Aug 2020 - Present