

Tianyi Zheng

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Education

University of Pittsburgh, Pittsburgh, PA Aug 2020 - Apr 2024

B.S. Computer Science

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

Tesoro High School, Rancho Santa Margarita, CA Aug 2016 - Jun 2020

High School Diploma

GPA: 4.53/4.0

- Graduated in top 10% of graduating class.

Projects

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

- Worked with a team to develop a health literacy app for The Pitt Challenge 2020 hackathon.
- Learned mobile app front-end development using the Ionic and AngularJS frameworks.
- Implemented user interface and basic app functionalities.
- Placed first in the Mobile Health Records track.

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 allowed the user to input custom starting states.

Huffman Coding (C++)

- Implemented Huffman coding to compress and decompress text files.
- Learned file I/O and bit manipulation in C++.
- Generated custom Huffman binary trees for a given text file.
- Compressed text files by up to 40%.

Skills

Languages: C++, Java, Python, C, HTML/CSS

Technologies: Git/GitHub, LaTeX, Vim

Activities

Pitt Computer Science Club Aug 2020 - Present

Society for Asian Scientists and Engineers Aug 2020 - Present

Kappa Theta Pi (Professional Technology Fraternity) Sept 2020 - Present