

Jimmy Zheng

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 jimmy-zheng

 ByteSizeError

 Seattle, WA

EXPERIENCE

Computer Science Tutor — Private Tutor

JANUARY 2021 - PRESENT

- Coached multiple college students, one-on-one remotely.
- Guided students through computer science topics and programming.
- Encourage students for their feedback and motivated their learning.

PROJECTS

WeatherBook

— JavaScript, HTML, CSS, MongoDB, AWS, GitHub, React, Express.js

- Developed an app with a modern UI that can view conditions at specific locations as well as saving them to a journal for future reference.
- Led a team of 5 overseeing the creation of this web app.
- Delegated work evenly by each team member's knowledge.
- Assured each of our scrum sprints was on schedule.

Microsoft's DCCD Charitable Giving Management App

— JavaScript, HTML, CSS, PostgreSQL, GitHub, Node.js, npm

- Streamlined the charitable giving team's workflow by keeping track of applications and ease of modifying their budget for each region.
- Automated a system for the 400+ organizations they are working with.
- Ensured security by using hashed passwords and page restrictions.
- Placed 3rd for Computer Science Senior Design Competition.

Yelp Recommendation App

— Python, AWS, PySpark, PostgreSQL

- Refined 12 gigabytes of Yelp data consisting of over 2 million users to recommendations of businesses and friends under 20 seconds.
- Applied user-based collaborative filtering for the recommendation.

MTX OS

— C, Assembly, Ubuntu

- Assembled an operating system that has support for the EXT2 filesystem and is 100% compatible with Linux OS.
- Able to read, write and modify files as well as create and delete folders.
- Can handle multiple logins and support the majority of UNIX syscalls.

BucketList App

— Swift, SQLite, PhotoKit

- Allows the user to track personal interest: foods, travel, activities, etc.
- Users can likewise create additional sections they want.

RPG Life Manager (CrimsonCode Hackathon 2019)

— Android Studio, Java, GitHub

- A fun way for users to track progress on goals in a game-like experience.
- Cooperated with 3 other people in a time constricted competition.

Logic Escapist (CrimsonCode Hackathon 2018)

— Unity, C#, GitHub

- Created a 2D platform puzzle game that involves logic gates.
- Worked in a team of 3 each delegated to perform a separate task.
- I was in charge of game design and programming animations.

Artificial Intelligence in Wumpus World

— Python, C++

- Developed an agent that can solve randomly generated mazes.
- Using A* search the agent can avoid obstacles and safely navigate..

EDUCATION

Washington State University

AUGUST 2017 - DECEMBER 2020

Bachelor of Science

Major in Computer Science

Minor in Mathematics

Honors: *magna cum laude*

SKILLS

Programming Languages

Python, C++, C, Java, Swift, HTML, CSS, JavaScript

Programming Tools

Git, AWS, Yaml, PostgreSQL, React, Node.js, npm, MongoDB, Express.js, jQuery, Bootstrap, Agile Scrum Methodology

Relevant Coursework

Web Development
Mobile App Development
Artificial Intelligence
Operating Systems &
Computer Architecture
Design & Analysis Algorithms
Advanced Data Structure
Computer Networks
Software Design Project
Software Engineering
Database Systems
Big Data

Languages

English, Mandarin, Fujianese

AWARDS

Senior Design Competition

Awarded 3rd place in the Fall 2020 Computer Science Senior Design Competition.

President's Honor Roll

2018 Spring, Fall
2019 Spring, Summer, Fall
2020 Fall

STARS Scholarship

2017 - 2018 academic year
2018 - 2019 academic year

EECS General Scholarship

2018 - 2019 academic year