Lei Yao

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Projects I've Worked on

Arcade Machine - Python, Git, OOP, Pycharm, SDLC, Testing

- Led a small team of 5 in planning, documenting, and presenting.
- Worked with Python and APIs for raspberry pi.
- Focused on codes for I/O on hardware and helped other programmers with debugging and quality assurance.
- The project was later used for school promotion.

Personal Website - JS, CSS/HTML, Git, Brackets, SDLC

- Designed and built a website using CSS/HTML and some jQuery.
- Used tools like Brackets IDE and GitHub.
- Followed a basic SDLC process of planning, designing, implementing, testing, deploying and maintaining.

Hackto 2022 - JSON, CSS/HTLM, Map API

- Created a partially completed web app that creates safer travel routes in Toronto.
- Worked with CSS/HTML, Leaflet map APIs and processing and visualizing JSON files from the database.

Wordle - Java, OOP, Git, PERT/GANTT charts, VS Code, SDLC

- Developed a Java version of Wordle with two other friends.
- Used VS code environment, basic OOP techniques, and classic CI/CD tools like GitHub.
- Worked on class for user input and feedback systems.
- Also helped with PERT/GANTT charts as part of the SDLC process.

Snake - Jave, OOP, Eclipse

- Recreated Snake in Java with OOP techniques, including multiple modes and a customizable UI.
- Used Eclipse IDE throughout the project.
- Used OOP concepts such as data encapsulation, inheritance, polymorphism, etc.

Discord Bot - Python, OOP, Pycharm

- Created a Discord bot with Python using Discord API.
- It features role creation, message purging, and member banning/unbanning.

Physics Simulator - Python, Pygame, Pycharm

• Created a physics simulator using Python and Pygame with self-made classes for a simple UI.

Robotic Team Website - JS, CSS/HTML, Git, Brackets, Testing

• Maintained and updated the school's robotics team website; trained team members to do the same.

Skills

Language (computer)

• Python, CSS/HTML, Java, Core JS, C/C++, Racket and VB.

Object-Oriented Programming

- Basic understanding of OOP with Java and Python.
- Have software development experience with OOP.

Software Development

- Able to make software with SDLC and basic CI/CD tools like GitHub.
- Familiar with the Linux shell environment, creating bash scripts and basic Automation for repetitive tasks.

Web Development

- Good understanding of CSS/HTML and basic JS animation.
- Fully designed and built a website from scratch.

Language

• Fluent in Mandarin and English.

Communication

- An effective communicator with knowledge of interpersonal communication
- Have the ability to cooperate in a team.

Educational Background

University of Waterloo Waterloo, Ontario, Canada

Bachelor of Computer Science 2022 - Present

Currently taking a degree in CS/Digital Hardware with a plan to minor in combinatorics and optimization and computational mathematics. Planning to pursue graduate school after graduation.

Current GPA: 3.94/4

Awards and Certifications

- OBEA Website Development Sr. Contest Champion
- Core Javascript and Canvas Programmer Certificate
- Canadian Computing Competition 2022 School
 Champion