Jason Wong

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Education

Pasadena City College   August 2017 - Present

Major: Computer Science

Major GPA: 3.42

Coursework: Discrete Mathematics, Data Structures, Object-Oriented Programming (C++ and Java), Intro to Computer Science, AP Computer Science A

Projects

SQL Relational Database System

- Developed an SQLite clone in C++ that stores tables locally
- Supports a subset of SQL commands (SELECT, INSERT INTO, CREATE TABLE, DROP)
- Implemented a B+Tree for indexing
- Used a finite state machine to implement an SQL parser

Graphing Calculator

- Developed a simple graphing calculator in C++ that plots 2D cartesian functions, like Desmos
- Implemented an input tokenizer and the shunting yard algorithm to convert infix expressions to postfix
- Used inheritance to develop an entity based framework
- Used SFML for rendering

Sushi Shop

- Lead a team to develop a sushi making game in Java
- Player is given a randomized sushi order and must move a plate to catch falling ingredients to construct the order
- Uses JavaFX as the primary GUI library and the JavaFX canvas as the primary renderer
- Designed the game engine framework using inheritance

Work Experience

PCC Learning Assistance Center, Pasadena Computer Science Tutor   January 2019 - Present

- Worked with students needing assistance to help debug code, understand concepts, and work out solutions for programming
- Worked with professors to learn how to more effectively assist students and build healthy study habits
- Troubleshooted problems with classroom and computer lab computers

Involvements

She.Codes Board Member   September 2019 - Present

- A club at PCC that aims to provide a sense of community and support to women in the tech industry
- Streamlined new member signups during club rush
- Wrote and sent weekly newsletters to club members
- Hosted and co-hosted workshops during club meetings

Skills

Languages: C++, Python, Java, JavaScript/TypeScript, HTML/CSS, LaTeX

Libraries/Frameworks: Bootstrap, discord.js, discord.py, jQuery, Node.js, SFML

Tools/Software: git, bash