Jason Wong

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Education

Pasadena City College   August 2017 - Present

Major: Mathematics (AS-T) | Computer Science
Major GPA: 3.42
Coursework: Discrete Mathematics, Data Structures, Object-Oriented Programming (C++ and Java)

Projects

SQL Relational Database System
- Developed a relational database management system in C++ that supports a subset of SQL commands (SELECT, INSERT INTO, CREATE TABLE, DROP)
- Implemented a B+Tree to index database entries for fast querying
- Implemented a finite state machine to develop an SQL command parser

Graphing Calculator
- Developed a graphing calculator in C++ that plots 2D cartesian functions
- Implemented an input tokenizer and the shunting yard algorithm to convert infix expressions to postfix
- Utilized inheritance and polymorphism to handle multiple graphs
- Used SFML for rendering

Sushi Shop
- Led a team to develop a sushi making game in Java
- Developed a game where the player is given a randomized sushi order and must move a plate to catch falling ingredients to construct the order
- Used JavaFX and the JavaFX canvas for the GUI and rendering
- Utilized inheritance to develop the game engine framework and game logic

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 registrations 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, JavaFX, jQuery, Node.js, SFML
Tools/Software: git, bash