

Jason Wong

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EDUCATION

Pasadena City College

August 2017 - Present

- Major: Computer Science
- Major GPA: 3.42

Coursework

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

PROJECTS

SQL Database

- Developed an SQLite clone in C++ that stores tables locally in binary files
- Supports a subset of SQL commands (SELECT, INSERT INTO, CREATE TABLE, DROP)
- Implemented a B+Tree for indexing
- Implemented a string tokenizer and SQL parser using a state machine

Graphing Calculator

- Developed a simple graphing calculator in C++ that plots 2D cartesian functions, like Desmos
- Uses an input tokenizer and the shunting yard algorithm to convert an infix expression to postfix notation to be evaluated
- Used SFML as a renderer

Sushi Shop

- Worked in 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

WORK EXPERIENCE

- **PCC Learning Assistance Center, Pasadena** Computer Science Tutor January 2019 - Present
 - Worked one-on-one with students needing assistance to help debug code, understand concepts, and work out solutions for programming assignments
 - Worked with professors to learn how to more effectively assist students and build healthy study habits
 - Helped troubleshoot problems with classroom computers

INVOLVEMENTS

- **She.Codes** | Webmaster Fall 2019
 - A club at PCC that aims to provide a sense of community and support to women in the tech industry

SKILLS

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

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

Tools/Software: git