

# 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
  - Collected and managed new member registration info
  - Managed sending weekly newsletters to club members

## SKILLS

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

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

**Tools/Software:** git