

# 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 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
- Used an input tokenizer and the shunting yard algorithm to convert an infix expression to postfix notation to be evaluated
- Used inheritance to develop an entity based framework

### 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,  $\text{\LaTeX}$

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

**Tools/Software:** git, bash