Jason Wong

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Education

Pasadena City College   August 2017 - June 2020
- **Degree**: Mathematics, AS-T
- **Area of Study**: Computer Science
- **Coursework**: Unix Scripting, Discrete Mathematics, Data Structures, Object-Oriented Programming

California State University, Fullerton   August 2020 - Present
- **Degree**: Computer Science, B.S. (Expected 2022)

Projects

Spotify Playlist Sorter Developer / Maintainer   github.com/jaasonw/spotify-new-music-sorter
- Worked in a team to develop a web app in Python that places liked songs on Spotify into a playlist using the Spotify Web API
- Developed and designed the frontend using Flask and Bootstrap
- Deployed the app onto an Amazon EC2 instance

SQL Relational Database System Developer   github.com/jaasonw/Database
- 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 Developer   github.com/jaasonw/graphing-calculator
- Developed a graphing calculator in C++ and SFML using a modular, object-oriented design
- Plots 2D cartesian functions with panning, zooming, and controlling individual graph visibility
- Implemented the shunting yard algorithm to parse mathematical expressions to postfix notation with respect for order of operations

Sushi Shop Developer   github.com/jaasonw/sushi-shop
- Led a team to develop a sushi making game in Java and JavaFX
- 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
- Designed and built an object-oriented game engine framework and implemented game logic

Work Experience

PCC Learning Assistance Center Computer Science Tutor / Lab TA   January 2019 - Present
- Worked one-on-one with students to teach computer science concepts and debugging techniques
- Worked with professors to help improve lectures and build long term study habits within students
- Provided assistance to students with software issues in classrooms and computer labs

Involvements

She.Codes Webmaster, Treasurer   September 2019 - Present
- A club at PCC that aims to provide a sense of community and support to women in the tech industry
- Collected new member sign up information
- Wrote and sent weekly newsletters to club members
- Hosted and co-hosted workshops during club meetings
- Designed and maintained the club website

Skills

Languages: C++, Python, Java, JavaScript/TypeScript, HTML/CSS, LaTeX, bash
Libraries/Frameworks: Bootstrap, Flask, jQuery, Node.js
Tools/Software: git, Unix/Linux, AWS EC2