

# Jason Wong

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## Education

**Computer Science, B.S. & Minor in Mathematics** California State University, Fullerton  
**Mathematics, AS-T** Pasadena City College

June 2022

June 2020

## Coursework

- File Structures & Database Systems
- Computer Organization
- Data Structures
- Unix Scripting
- Discrete Mathematics & Linear Algebra
- Object-Oriented Programming

## Skills

**Languages:** Python, C++, Java, JavaScript/TypeScript, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X, Dart, SQL, R, MATLAB

**Libraries/Frameworks:** Express.js, Flask, Flutter, Node.js, NumPy, Next.js, React

**Tools/Software:** git, Unix/Linux, Amazon Web Services, Google Cloud Platform, Heroku, PostgreSQL, SQLite

## Projects

### Spotify Seasonal Playlist Sorter | Python

April 2020

- Worked in a team to develop a web app that places liked songs on Spotify into playlists grouped by seasons
- Developed and designed the frontend and deployed the app onto an AWS EC2 instance
- Added a SQLite database to manage user data and playlists
- Used the Spotify REST API and Flask

### APPE Regional Draft Analysis | Python

January 2021

- Monte Carlo simulation to forecast the probability of pharmacy students getting their preferred region for their Advanced Pharmacy Practice Experiences (APPE) rotations
- Ran 100000 draft simulations using a probability distribution constructed using a sample of students' preferred regions to generate a report detailing the probability of each student getting their preferred pick

### SQLite Clone | C++

June 2019

- Developed a relational database management system that supports a subset of SQL commands
- Implemented a B+Tree to index database entries for fast querying
- Implemented an SQL command parser with syntax error checking

### Sushi Shop | Java

May 2017

- Led a team to develop a sushi making game where players are given a randomized sushi order and must move a plate to catch falling ingredients to construct the order

## Work Experience

### Nex-ii LLC, Twiine Full Stack Developer, twiine.com

June 2020 - September 2020

- Built a planning and user profile page on the mobile app with support for live updates
- Developed the backend login and signup flow with support for Google, Facebook, and Email authentication
- Designed and implemented the API allowing users to schedule hangouts and send invitations to other users
- Optimized the database to minimize the number of queries for per document read billing
- Used Flutter, Node.js, and Python on Firebase

### PCC Learning Assistance Center Computer Science Learning Assistant

January 2019 - December 2020

- 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
- Assisted and advised staff on the transition to remote tutoring during the COVID-19 pandemic

## Leadership

### CSUF Association of Chinese Students Treasurer

May 2021 - Present

### PCC She.Codes Webmaster, Treasurer

September 2019 - June 2020