

# Jason Vega

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## Education

### University of California, San Diego

June 2022 (expected)

*B.S., Cognitive Science (Machine Learning and Neural Computation), GPA: 4.0*

**Coursework:** Basic Data Structures and Object-Oriented Design, Software Tools and Techniques Laboratory, Introduction to Computer Science and Object-Oriented Programming: Java, Structure and Interpretation of Computer Programs (UC Berkeley), Introduction to Programming with C++ (Diablo Valley College)

## Projects

### Fuzzy App

December 2018-Present

<https://github.com/jason-vega/fuzzy>

- Currently developing a mobile application to help combat low self-esteem by allowing users to save encouraging text messages and other positive memories (e.g. photos) in one central virtual album.
- Using Dart in Google's Flutter framework to build the application with a modern look (e.g. using Material Design Cards) as well as a system for storing, retrieving and modifying memories in a local JSON file.

### Symphonic Student Association Website (Triton Software Engineering)

November 2018-Present

<https://github.com/TritonSE/SSA>

- Currently developing a website for the Symphonic Student Association at UCSD in a team of six students.
- Utilizing HTML and CSS in a Bootstrap framework to create a responsive layout of the home page elements, including the navbar and background slideshow.

### OneByte App (SD Hacks)

October 2018

<https://github.com/jason-vega/OneByte>

- Created a mobile app in a team of three people that allows users to efficiently find and advertise free and low-cost local food through a feed of crowd-sourced data.
- Utilized Firebase in a React Native framework to implement sending and retrieving real-time data.
- Delegated tasks and served as a key member pushing the project to completion within the last 24 hours.

### F.R.C. 2018 Robot (FalconX Robotics)

January 2018-March 2018

[github.com/FalconX-Robotics/frc2018](https://github.com/FalconX-Robotics/frc2018)

- Contributed to the development of Java code for a F.I.R.S.T. Robotics Competition robot in a team of four.
- Utilized the WPI Robotics (Java) Library to program the drivetrain to autonomously move a desired distance and turn at a desired angle using feedback from encoders and a gyroscope.
- Pioneered research of implementing PID loop control and provided mentorship for the freshmen.

## Experience

### President, Project Manager, Programming Mentor

May 2017-May 2018

*FalconX Robotics, Pleasant Hill, CA*

- Managed a team of 35 high school students who designed, fabricated and programmed a 120 lb. industrial-sized robot to participate in the F.I.R.S.T. Robotics Competition within a six-week time frame.
- Developed and taught a series of lessons to introduce programming basics and OOP using C++ and Java to new students, complete with slideshows, assigned readings, demo code and exam.
- Promoted student outreach and diversity resulting in a growth of 133% in active student membership from first year; 66% of members were new underclassmen, and 40% of members were female.

### Academic Intern

January 2018-May 2018

*UC Berkeley Electrical Engineering & Computer Science Department, Berkeley, CA*

- Engaged with students in an introductory computer science course of over 1000 students during lab (approximately 30 students) and office hours to help with homework, lab assignments, and exam prep.
- Explored different approaches to teaching programming concepts in Python, Scheme and SQL, and learned how to empower students to actively engage with the problems they were trying to solve.

## Skills & Achievements

**Programming:** Python, Java, C++, SQL, HTML/CSS | **Foreign Languages:** Chinese | **Activities:** Violin

**Achievements:** Second place - Women in Computing FA18 Beginner's Programming Competition at UCSD