

Jason Vega

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Education

University of California, San Diego

June 2022 (expected)

B.S., Computer Science | Minor: *Mathematics* | **GPA:** 4.0 with Provost Honors (Fall '18, Winter '19, Spring '19)

Relevant Coursework: Intro to Data Structures, Software Tools and Techniques, Linear Algebra, Discrete Math, Multivariable Calculus, Structure and Interpretation of Computer Programs (UC Berkeley)

Projects

Symphonic Student Association Website (Triton Software Engineering)

November 2018-May 2019

<https://github.com/TritonSE/SSA>, Website: <http://ssa.ucsd.edu/>

- Created a website in a team of six students for the Symphonic Student Association at UC San Diego.
- Utilized HTML and CSS in a Bootstrap framework to create a responsive layout of the home page elements, including the navbar and background slideshow.
- Pioneered research and development on using the PHP Google Calendar API to retrieve and display public calendar data, as well as reverse engineering an embedded Google Calendar to modify its default appearance.

Fuzzy App

January 2019

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

- Developed a mobile application to help combat low self-esteem by allowing users to save encouraging text messages and photos in one central virtual album.
- Utilized 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 user data in a local JSON file.

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.

Experience

Instructional Assistant

July 2019

Diablo Valley College - College for Kids Program, Pleasant Hill, CA

- Engaged with approximately 100 students entering the 4th-9th grade over four "Coding & Robotics" course sections utilizing the BBC Micro Bit, Microsoft MakeCode and MicroPython.
- Assisted students with debugging and circuit setup, resolved student disputes and helped to develop and teach two major robotics projects featuring the use of an accelerometer and ultrasonic sensors.
- Managed approximately 50-100% of student inquiries at a time, allowing all class projects planned for a class session to be completed within the hour timeframe for 31 out of 32 sessions.

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 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.

Skills & Achievements

Programming: Python, Java, C++, Dart (Flutter), HTML/CSS/JS | **Foreign Languages:** Chinese | **Activities:** Violin

Achievements: 2nd Place - Women in Computing Fall '18 Programming Competition (all genders inclusive), UCSD