

# Jason Vega

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## Education

### University of California, San Diego

June 2022 (expected)

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

**Coursework:** Introduction to Programming (Diablo Valley College), Structure and Interpretation of Computer Programs (UC Berkeley), Introduction to Computer Science and Object-Oriented Programming: Java, Calculus and Analytical Geometry for Science and Engineering

## 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.
- Single-handedly 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 during lab and office hours to help with homework, lab assignments, and exam prep. The course was taught using Python, SQL and Scheme.

## Academic Projects

### F.R.C. 2018 Robot

January 2018-March 2018

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

- Contributed to the development of code for a F.I.R.S.T. Robotics Competition robot using Java and the WPILib API.
- Programmed the drivetrain to autonomously move a desired distance and turn at a desired angle using feedback from encoders and a gyroscope.

### Scheme Interpreter (Structure and Interpretation of Computer Programs)

August 2017

- Developed an interpreter for a subset of the Scheme language using Python.
- Implemented features including support for tail calls, dynamic scoping and macros.

## Startup Projects

### 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.
- Implemented back-end features of sending and retrieving real-time data using Firebase into the React Native framework.
- Contributed to the style and layout of the app's login, feed and "Add Event" screens using CSS and JSX.

### Personal Website

August 2017

[jason-vega.github.io](https://jason-vega.github.io)

- Designed and developed my own personal website using HTML and CSS.

## Skills & Activities

Programming: Python, Java, C++, SQL, HTML/CSS

Foreign Languages: Chinese

Activities: Violin