Jason Vega

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Education

University of California, San Diego June 2022 (expected)

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

Relevant Courses: Introduction to Programming, Structure and Interpretation of Computer Programs, 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 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

- 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.

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

Personal Website August 2017

jason-vega.github.io

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

Skills & Activities

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

Activities: Violin