Jason Ethan Wu

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Education

University of California, San Diego	• Computer Engineering B.S. in 2018 • 4.0 Engineering GPA
Programming Languages	• Proficient in Java, C, C++, C#, HTML. • Experienced in Python, JavaScript.

Projects and Experience

Boxes, and various other games 2010-Present	• Developed puzzle game from scratch using Unity (C# Scripting) • Wildly popular with friends, this as well as many other games received 3+ star ratings on online showcase site
UCSD Beginner's Programming Competition 2014-2015	• Three-time winner in a university-wide coding challenge open to all UCSD students who have not taken upper-division courses • Solved many questions using data structures, algorithms, simulations, and more.
Personal Website 2014-Present	• Created my own website using HTML/CSS paired with JavaScript and JQuery to create an elegant website containing more information about my background and projects. • Based off of the Bootstrap framework.
RemindMe 2014	• Created a reminder Android app that allows users to get daily or weekly notifications for small tasks that they decide on such as "meet up with a friend." • The purpose of the app is to make sure people don't get too caught up in work.
Server Management 2015-Present	• Repurposed an old desktop to set up and run a Linux server featuring SSH and an Apache server to test websites.

Class Projects

Data Structures & OOD CSE 12	• Performed a case study analysis of Object-Oriented design in C, C++, and Java to recommend which approaches were best suited to solve programming problems. • Nine projects implemented a stack-based calculator that evolved to utilize binary trees, circular linked lists, and hash tables.
Computer Organization & Assembly CSE 30	• Created several projects coded in C and SPARC assembly to apply knowledge about how the underlying system works. • These were integrated into projects like an encrypter/decrypter and a version of the Unix "sdiff" command.
Analog Circuits ECE 35	• Designed and created circuits such as a signal reconstructor, optical data link, and a band pass filter to implement concepts like DC/AC circuit analysis, op-amps, and diodes.
Machine Learning Stanford online course	• Created many regression and optimization programs in Matlab that utilized learning algorithms and linear algebra. • These concepts were used in a photo OCR used to detect text and objects in an image.

Work Experience

CSE Tutor/Mentor @ UCSD CSE Department	• Mentored and tutored a class of 30 students in an accelerated summer program with the CSE 12 curriculum (See above). • Provided help through lab hours, holding study sessions, and also planning, administering, and grading assignments and exams.
SDHacks Hackathon Organizer @ UCSD SDHacks	• Cooperated with a school-wide effort to fund UCSD's first Hackathon by raising $300,000 in sponsorships and worked with other students to gather community support and arrange events and fundraisers such as the mentor program.
Assistant Instructor @ Tech Know How	• Taught 20 children game design and robotics in week-long day camps as an instructor. • Worked 35 hour work weeks for 3 years, received all positive feedback from participants.