Jonathan Yu

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Education

University of California, San Diego   September 2018 – June 2022 (Expected)
– Bachelor of Science (B.S.) in Computer Science, 3.71 GPA.
– Coursework: Data Structures and Object Oriented Design, Software Tools and Techniques, Computer Science and Object Design: Java, Discrete Mathematics, Mathematics for Algorithms and Systems Analysis, Computer Organization and Systems Programming, Advanced Data Structures, Theory of Computability, Design and Analysis of Algorithms, Software Engineering

Projects

Simple Internship Management Platform
– Helped design a React.js application helping individuals find internship listings
– Worked mainly on backend to web scrape internship listings off of various websites
– Collaborated in a team of 10 individuals to finish a fully functional application
– Web Scraper coded with **Python**

MNIST Digit Classifier
– Designed introductory machine learning project classifying varying images of digits 0-9
– Utilized Keras libraries as well as Keras data sets for over 50,000 images
– Achieved 97 percent accuracy after three epochs
– Coded with **Python**

Potentiometer-Controlled Robotic Arm
– Utilized an Arduino Leonardo board to control four potentiometers attached to robotic arm
– Connected Arduino Leonardo with breadboard and computer for controlling servos on arm
– Coded using **C and C++**

20-20-20 Eye Relaxer
– Utilized electric servos and MIT app inventor to create an Android application
– Program aimed to help alleviate eye problems caused by staring at blue light for too long
– Won Honorable Mention at Synopsys Science Fair

Activities

Website Editor, Circle K at the University of California, San Diego   October 2019 - March 2020
– Update and manage website for the Circle K club at the University of California, San Diego
– Work in team setting to maintain website
– Coded using **HTML and CSS**

Outreach Vice President of Programming Club, Evergreen Valley High School   April 2017 – April 2018
– Taught USACO programming problems to both beginner and advanced students
– Found events related to programming such as hackathons and coding competitions
– Lead club meetings and worked with other officers in the club

Accolades

– 2nd place at Google UCSD WIC Beginners Programming Competition - Spring 2019
– 5th place at Microsoft UCSD WIC Beginners Programming Competition - Winter 2019
– USACO Silver Division
– Synopsys Science Fair - Honorable Mention

Skills

– **Languages and tools:** Java, C, C++, Linux, ARM Assembly, Git, Bash Scripting, Python, MATLAB, GNU Octave, R, HTML, CSS, Haskell
– Leadership experience from school clubs
– Teaching experience with computer science at school