

# Jonathan Yu

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## Education

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### 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

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### Simple Internship Management Platform

- Helped design a React.js application helping individuals find internship listings
- Back end Engineer, web scraped 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 using neural networks
- 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

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### 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

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- 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

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- **Languages and tools:** Java, C, C++, Linux, ARM Assembly, Git, Bash Scripting, Python, MATLAB, GNU Octave, R, HTML, CSS, Haskell, Verilog
- **Methodologies:** Agile, Waterfall
- **Operating Systems:** Windows 10, Windows XP, Android, iOS, Linux