

# Justin Yu

SOFTWARE ENGINEER

Newark, CA, 94560

☎(+408) 833-2630 | ✉justinyu9@yahoo.com | 🏠justinyu.me | 📷justinyu9 | 🌐jubyu

"Every great developer you know got there by solving problems they were unqualified to solve until they actually did it."

## Education

University of California, Santa Cruz

GPA: 3.57/4.00

BACHELOR OF SCIENCE IN COMPUTER SCIENCE; MINOR IN TECHNOLOGY INFORMATION MANAGEMENT

Sept. 2015 - Exp. Jun. 2019

## Relevant Courses

Intro to Java Accelerated, Data Structures, Algorithms and Abstract Data Types, Computer Systems and Assembly Language, Computer Architecture, Introduction to Analysis of Algorithms, Computational Models, Introduction to Software Engineering, Mobile Applications, Introduction to Operating Systems, Database Systems I, Comparative Programming Languages, Web Applications, Machine Learning, Computer Networks

## Work Experience

### Cisco Systems

Milpitas, CA

SOFTWARE DEVELOPMENT INTERN

Sept. 2018 - Dec. 2018

- Registered devices automatically using Jenkins and Python to Cisco Spark so infrastructure team does not have to manually register them after device updates.
- Used Cobbler to create virtual machines and update servers to provide others accessibility to a virtual machine when they need it.
- Created automated scripts using Ansible to install OpenStack and AWS so others can run a script to automatically configure these cloud platform settings.
- Created a script that allows others to create instances and VLANs in a OpenStack Cloud Platform that route and communicate to each other properly.

### Alarm.com

Tysons Corner, VA

SOFTWARE ENGINEERING INTERN

July. 2018 - Sept. 2018

- Wrote unit tests in C# and SQL scripts to check if backend SQL database returns function calls properly.
- Refined ember add-ons by deleting devDependencies which will decrease build/compile time of programs by up to 80%.
- Configured formatting using a code formatter called Prettier so other programmers can code without worrying about code formats.
- Enhanced User Interaction on Customer and Dealer Page by using Ember.js and C#, impacting many daily customers.

### iD Tech

Santa Clara, CA

COMPUTER SCIENCE INSTRUCTOR

June. 2017 - Aug. 2017

- Made weekly lesson plans and modified course to fit students' needs.
- Mentored each student to create individual projects by the end of each weekly session.
- Taught high school students (ages 13-17) C++, Python, Java, HTML, CSS, Javascript, Assembly, and BASIC.

## Projects

### Logo Detector

Santa Cruz, CA

BACKEND

Mar. 2018

- Machine Learning model that automatically blurs 32 different company logos when given an image or video in real time.
- Created custom a Convolutional Neural Network inspired by VGG and Darknet to train our model.
- Ran YOLO-v2 to run our script and python library scikit to blur part of an image given a bounding box.
- Blurred logos in an image in around 0.4 milliseconds with a 70% accuracy.

### Movie-text Predictor

Santa Cruz, CA

BACKEND

Dec. 2018

- Machine Learning model that predicts if a given movie text review is considered "really negative", "negative", "neutral", "good", or "really good".
- Coded in Python using Sklearn library to test different models for highest accuracy and F measure.
- Chose SVM model with a penalty value of 5 because the train accuracy was the highest in our training set compared to other models.

### Finder

Santa Cruz, CA

FULL STACK

May. 2018

- Web Application that allows users to report lost and found items and place a pinned location where these items were found.
- Users can make an account and data will be stored in an SQL database of their inputted contact information and images of items they post.
- Worked on the Search Bar, forms, storing information into a database, and routing user inputs from front end to back end.
- Used Web2py, Vue.js, SQL, Python, Javascript, and HTML/CSS.

## Research

### Tech 4 Good

Santa Cruz, CA

UNDERGRADUATE RESEARCH ASSISTANT

Sept. 2018 - Present

- Researched under Professor David Lee.
- Will help build a web-based platform to help coders build websites for non-profit organizations using Redux and React.
- Interviewed participants about social topics and transcribe them and give a qualitative analysis.
- Used method of qualitative analysis called "coding" that deduced motivation and values from participants to form hypotheses.
- Lead delivery of reading groups which is product that allowed any student to discuss scientific papers with one another to explore areas of Engineering.

### Privacy Labs

Santa Cruz, CA

UNDERGRADUATE RESEARCH ASSISTANT

Sept. 2017 - June. 2018

- Researched under Professor Abhradeep Guha Thakurta.
- Analyze research papers relating to data privacy.
- Coordinated with Professor to further my understanding and study his work.
- Working with local differential data privacy.
- Weekly meetings with Graduate Research Assistants to discuss theorems and proofs regarding data privacy.

## Skills

Programming: Java, C, Javascript, C#, Python, C++, HTML, CSS, Assembly, PHP, Commodore, BASIC, Scheme, OCaml, Smalltalk.

Database: FireBase, SQL.

Software: Microsoft Office, Notepad++, Sublime Text, Brackets, Android Studio, Latex, Webstorm, Visual Studios, IDLE, Eclipse, Github, Scrum.

Operating Systems: Windows 10, Windows XP, Android, iOS, OSX, UNIX.

Frameworks: Express.js, React.js, Vue.js, Ember.js, Node.js.