






# John Yang

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## Skills

**Languages:** Java, Swift/Obj-C, Python, HTML/CSS, Go, R, SQL, JavaScript, Scheme

### Technologies & Development

**Tools:** Git, Docker, XCode, Linux, Sketch, Illustrator, Blockchain (Bosswave), Android Studio

**Libraries:** Flask, Django, Numpy, Tensorflow, Scikit-Learn, Seaborn

**Hardware:** Laser Cutting, ShopBot CNC Router, PCB Soldering

## Coursework

Data Structures and Algorithms

Designing Information Devices and Systems

Multivariable Calculus / Linear Algebra / Discrete Mathematics & Probability Theory

Foundations of Data Science

FreeCodeCamp Front-End Development Certification

Startup Engineering, Stanford University (Coursera)

## Awards

2<sup>nd</sup> Place, Facebook Global Hackathon Finals, Nov 2016

MHacks 8: Facebook – Most Open and Connected App Award

2<sup>nd</sup> Place, Original Advocacy, CHSSA State Tournament, Apr 2016

National AP Scholar, July 2015

2006 Times Person of the Year

## Education

### University of California, Berkeley

B.S., Electrical Engineering & Computer Science

GPA: 3.59, Expected: May 2019

## Experience

### Apple

Sunnyvale, CA

Software Engineering Intern

May 2017 – Dec 2017

- AppleCare Field Diagnostics and Systems Engineering Team
- Building on-device diagnostic tests for current and future devices' audio components
- Developing reinforcement + unsupervised machine learning and audio coding algorithms
- Working with Obj-C, Swift, XCode, File Managers, Core Data, Socket Protocols, I/O Serial Device Listeners, Custom Animators, and Hardware Sensors
- Solutions to be implemented in retail stores and factories worldwide

### Wireless Embedded Systems Laboratory

Berkeley, CA

Lab Assistant

Aug 2016 – Present

- Assisting Berkeley's WEB and AmLab Ph.D. candidates with research projects
- Writing scripts in Python and Go to automate execution of candidates' project tests
- Studying Operating Systems, Sensor Networking, and basic electrical engineering skills

### Valley Consulting Group

Berkeley, CA

Consultant

Jan 2017 – Present

- Contract Consultant for Square, Inc.
- Providing benchmarking research for maximizing Square's customer service efficiency
- Conducting lifecycle and optimization analyses of Square's customer service

### Make School (YC W12)

San Francisco, CA

iOS Game Development Instructor

Jun 2016 – Aug 2016

- Taught Swift programming, XCode, and SpriteKit's game development framework
- Assisted with migration of Make School curriculum from Swift 2 to Swift 3
- Admitted 150+ students as admissions officer for the Summer Academy program

## Projects

### Basketball Trivia

February 2017

<http://amzn.to/2ndWGVY>

- 1300+ Unique Customers, 3700+ Sessions, and 25000+ Utterances to date
- Created multiple choice game with multiplayer features using JavaScript and Node.js
- Awarded Top Performing Alexa Game Skill by Amazon for May and June 2017

### FlightBot

November 2016

<https://devpost.com/software/flightbot>

- Won Amadeus API Award and Twilio API Award
- SMS mobile application for searching and booking flights via SMS text and phone call
- Utilized Python and Flask to set up Web Server for IBM Watson chat bot

### AutiBot

October 2015

<http://devpost.com/software/autibot>

- Won Best Social Impact Hack, Best Money Saving Hack, and Microsoft Azure Awards
- iOS application that detects a children's risk towards developing autism
- Incorporated the LibMuse SDK to read and Microsoft Azure to evaluate brain activity

### RoundAbout

August 2015

<https://itunes.apple.com/us/app/round-about/id1027049535?mt=8>

- 3000+ App Store Downloads and 10000+ App Store Impressions to date
- iOS multi-destination routing application
- 2015 Make School Summer Academy Most Outstanding App Award