






# John Yang

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## Skills

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

**Technologies & Development Tools:** Git, Docker, XCode, Linux, Sketch, Blockchain (Bosswave)

**Non-Technical:** Public Speaking, Chinese (Native)

## 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

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

National AP Scholar, July 2015

2006 Times Person of the Year

## Activities

CodeBase@Berkeley  
Hackers@Berkeley  
Enthusied LA Lakers aficionado  
Experienced Hackathon-goer

## Education

**University of California, Berkeley**

B.S., Electrical Engineering & Computer Science

GPA: 3.57, Expected: May 2019

## Experience

### Wireless Embedded Systems Laboratory

Berkeley, CA

Lab Assistant

Aug 2016 – Present

- Assisting Berkeley's WEB and AmpLab Ph.D. candidates with research projects
- Managing candidates' software with Git version control and Unix system administration
- 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

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
- Youngest instructor employed in company history

## Projects

### 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
- Created chat bot with Node-Red flow and the IBM Watson Conversation API

### Detroit Student Transport

October 2016

<http://devpost.com/software/detroit-student-transit>

- Won Facebook – Most Open and Connected App Award
- Cross platform service aimed at tackling Detroit's public transportation system.
- Designed information storage database using Firebase backend
- Worked with Google Maps API and Apple Core Location framework

### 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
- Configured Muse Headband with LibMuse SDK to record user reaction time values
- Created risk extrapolation model using Microsoft Azure's Machine Learning Platform

### RoundAbout

August 2015

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

- 3000+ App Store Downloads and 10000+ App Store Impressions
- iOS multi-destination routing application
- Coded an optimization solution to the NP-Incomplete Traveling Salesman Problem
- 2015 Make School Summer Academy Most Outstanding App Award