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

Non-Technical: Public Speaking, Chinese (Native)

Coursework

Data Structures

Designing Information Devices and Systems

Multivariable Calculus / Linear Algebra / Discrete Mathematics & Probability Theory

FreeCodeCamp Front-End Development Certification

Startup Engineering, Stanford University (Coursera)

Awards

2nd Place, Facebook Global Hackathon Finals, Nov 2016

2nd Place, Original Advocacy, CHSSA State Tournament, Apr 2016

National AP Scholar, July 2015

Activities

Hackers@Berkeley

Berkeley Sports Analytics Group

Objective

I'm specifically passionate in the areas of mobile development, full stack development, and machine learning, and generally interested in any software engineering opportunities.

Education

University of California, Berkeley
B.S., Electrical Engineering & Computer Science
GPA: 3.57, Expected: May 2020

Employment

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

Student Ambassador — Oct 2016 – Present

Wireless Embedded Systems Laboratory — Berkeley, CA
Lab Assistant — Aug 2016 – Present
- Assisted Berkeley's WEB and AmpLab Ph.D. candidates with research projects
- Managed candidates' software with Git version control and Unix system administration
- Wrote scripts in Python and Go to automate execution of candidates' project tests
- Studied Operating Systems, Sensor Networking, and basic electrical engineering skills

Projects

FlightBot — November 2016
https://devpost.com/software/flightbot
- 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
- Won Amadeus API Award and Twilio API Award

Detroit Student Transport — October 2016
http://devpost.com/software/detroit-student-transit
- 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
- Won Facebook – Most Open and Connected App Award

AutiBot — October 2015
http://devpost.com/software/autibot
- 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
- Won Best Social Impact Hack, Best Money Saving Hack, and Microsoft Azure Awards

RoundAbout — August 2015
https://itunes.apple.com/us/app/round-about/id1027049535?mt=8
- iOS multi-destination routing application
- Coded an optimization solution to the NP-Incomplete Traveling Salesman Problem
- 1000+ App Store Downloads and 10000+ App Store Impressions
- 2015 Make School Summer Academy Most Outstanding App Award