ANDY WANG

ABOUT

Duke junior interested in developing technologies that address impactful problems through beautiful user experiences and machine learning.

SKILLS

Languages (Experienced):
Swift, Ruby, Java, Javascript, Python, HTML/CSS

Languages (Familiar):
Objective C, SQL, MATLAB, C/C++

Frameworks:
Ruby on Rails, RSpec, Sinatra, Node.js, Flask, React/React Native (+Redux), Enzyme, iOS, Android, Bootstrap, Chrome Extension, Eclipse Plug-in

Databases/Data Stores:
PostgreSQL, MySQL, MongoDB, Redis, Firebase

Other Skills and Tools:
Scikit-learn, NumPy, LaTex, Heroku, TravisCI

CONTACT


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github.com/ownzandy


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andy-wang.me

EDUCATION

Duke University, Class of 2018, Durham, NC
- B.S. Candidate in Computer Science and Electrical and Computer Engineering
- Major GPA: 3.88/4.00, Total GPA: 3.84/4.00
- Relevant Coursework: Multivariable Calculus (A), Data Structures and Algorithms (A+), Linear Algebra and Differential Equations (A), Computer Architecture (A), Software Design and Implementation (A), Microelectronic Devices and Circuits (A), Computer Network Architecture (A-), Machine Learning Coursera by Andrew Ng (100%), Databases (pending), Maching Learning (pending), Design and Analysis of Algorithms (pending)

EXPERIENCE & AWARDS

Software Engineer Intern at Classpass, New York City, NY
May 2016-Aug. 2016
- Transitioned the iOS app to a tabbed navigation architecture with a custom navigation animation system and complete page re-designs
- Prototyped an Apple Watch app to display upcoming classes and gather fitness data through HealthKit about classes to improve workout feedback and recommendations
- Added additional categories using word embeddings (Word2Vec, Scikit-learn) and built API (Flask, MySQL) over activity (Boxing, Yoga, etc.) labeling NLP system

HackNY Fellowship, New York City, NY
May 2016-Aug. 2016
- Participated in intensive program designed to pair the best technical minds with great New York startups and a speaker series with C-level executives, VC partners, etc.

Chief Technology Officer at Embrace, Duke University, NC
Aug. 2015-Present
- Manage team of 3 engineers to create decision-support iOS application and API (Ruby on Rails, PostgreSQL) for case managers that delivers comprehensive community resource information to streamline hopsital discharge processes
- Piloted within Duke case management and secured Duke Health System funding

Director of Engineering at HackDuke, Duke University, NC
Aug. 2015-Present
- Manage team of 8 engineers to deploy microservices for managing and improving the experience of HackDuke's events, especially the hackathon (github.com/hack-duke)
- Past and current services include registration API (Ruby on Rails, PostgreSQL), static landing pages (React), registrant portal (React, Redux), admin dashboard (React, Redux), judging slack bot (Sinatra), judging API (Flask, Redis), mentorship slack bot (Node.js, MongoDB), event iOS/Android app (React Native)

Software Engineer Intern at IBM, Research Triangle Park, NC
May 2015-Aug. 2015
- Collaborated on a command-line interface (Node.js) and Eclipse plug-in (Java) used to deliver and managed hybrid apps on the MobileFirst Platform
- Developed features for previewing and pushing hybrid apps to the dev server

Tiresias (1st Place Health and Wellness Track @ HackDuke)
- Tablet app (Android, Project Tango) that helps the visually-impaired navigate
- Developed an algorithm to differentiate between walls, obstacles, and stairs using Project Tango's Point Clouds in order to provide auditory directions to the user

Bubblgram (3rd Place @ HackNC, Top 15 Duke Start-Up Challenge)
- Location-based mobile app (Android, Parse) that lets you send text and photos as physical entities that travel across the world with a unique location and velocity
- iOS and web versions developed as mini-event for Major League Hacking hack-a-thons where messages serve as tickets to company promotional products

Twitch Plays Pokemon Go (Featured on The Verge)
- Crowd-source playing Pokemon Go by using Twitch chat to control the player
- Continuous stream of chat commands consumed by Flask backend and sent to jailbroken iPhone, where low-level touch events and GPA location were spoofed
- http://www.theverge.com/2016/7/12/12167120/twitch-plays-pokemon-go-stream