Justin Mi

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Education

University of California, Berkeley — Berkeley, CA
BS, Electrical Engineering and Computer Science (EECS) — *August 2016 - May 2020*
GPA: 3.5; Major GPA: 3.9; Coursework: Data Structures, Algorithms, Discrete Math, Probability Theory, Linear Algebra, Computer Architecture, Information Systems & Devices Design, Multivariate Calculus

Experience

Berkeley Laboratory for Automation — Berkeley, CA
Unix Systems Administrator & Web Developer — *February 2017 - Present*
- Co-author of a paper published in IEEE GHTC 2017 with Prof. Ken Goldberg
- Developed the CAFE open-source platform (details below), launched 2 websites using CAFE
- Maintained 28 lab sites using Linux/Apache/MySQL/PHP tech stack; launched 2 sites using WordPress

Berkeley Institute for Data Science — Berkeley, CA
Project Lead — *September 2016 - Present*
- Used machine learning (clustering, random forest, regression, PCA) to identify traits of invasive species
- Built webapp using Django to allow users to upload datasets and use ML model: *edam.berkeley.edu*
- Classified 3000 species, achieved a classification accuracy of 87% for at-risk plants

Blueprint, Technology for Nonprofits — Berkeley, CA
Project Developer — *November 2017 - Present*
- Created a collaborative questionnaire and form processing app using Rails, React, and AWS for client Rocky Mountain Institute to streamline client acquisition and vetting process

Projects

CAFE — *opinion.berkeley.edu/pcari | opinion.berkeley.edu/free-speech*
- Built an open-source survey platform in Django that provides policy-makers insights into constituents' views by allowing survey-takers to submit their own opinions and policy suggestions, and rate others' opinions
- Created administrative dashboard with data visualization and analytics tools for policymakers
- Created dynamic feedback engine that provides participants' positions on social issues relative to community.
- Uses Service Workers and local storage to allow app to operate with limited to no internet

and-sold — *Github: git.io/v5R0G*
- Built a lightweight auction room generator for P2P transactions on Craigslist and Facebook marketplaces
- Allows users to instantiate an auction room for a item, which carries a unique link on the site.
- Interested buyers click on the link to make bids on the item.
- Allows sellers to organize buyers and gain naturally adjust price if the item is popular or not popular.

Pablo
- A Facebook Messenger bot that allows users to have anonymous conversations with others through it
- Deployed on DigitalOcean virtual server, used Ruby and Rails as language and framework
- Used Facebook API to integrate Ruby backend with webhook
- Wrote algorithm that made calls to access users based on unique IDs and pair them pseudorandomly
- Allows administrators to mass-send casual updates to all bot subscribers
- Syncs with a user's weekly schedule to automatically send individualized reminders about events

Dorm Ex Machina — *Github: git.io/vyfyf*
- Arduino system that uses RFID and Bluetooth to track whether a user has forgotten their belongings
- Created a "Find My iPhone"-like app as a hub for the user to retrieve forgotten belongings
- Won 1st place in Robotics@Berkeley's 2016 invention competition. Video: bit.ly/2fYhVmH

Skills and Qualifications

Experienced – Python, Java, C, Ruby, JavaScript, Node.js, jQuery, HTML, CSS
Proficient – Ethereum, Solidity