Justin Mi

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Education

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

Experience

Stripe   San Francisco, CA
Software Engineering Intern   *May 2018 - August 2018*

CITRIS Institute   Berkeley, CA
Software Engineering Intern   *May 2017 - Present*
- Created the CAFE open-source platform for constructing engaging and responsive online surveys to increase policy-making transparency and efficiency (more details in Projects), launched 2 websites using CAFE
- Co-author of 4 papers published in IEEE GHTC 2017 and IEEE TENCON 2017
- Contributed to the development of a collaborative filtering algorithm to determine the novelty of opinions

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 reduce client acquisition and vetting process time by approximately 10 hours per client
- Reduced energy consumption for client REI in their retail stores by 40%

Berkeley Institute for Data Science   Berkeley, CA
Project Lead   *September 2016 - December 2017*
- Developed a semi-supervised machine learning model to identify traits of invasive species
- Built webapp using Django to allow users to use ML model and visualize data: *edam.berkeley.edu*
- Classified 3000 species, achieved a classification accuracy of 87% for at-risk plants

CS 61B: Data Structures and Algorithms   Berkeley, CA
Undergraduate Student Instructor   *January 2018 - Present*

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
- Developed administrative dashboard with data visualization and analytics tools for policymakers
- Created dynamic feedback engine that provides participants' positions on social issues relative to community.
- Implemented Service Workers and local storage features 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
- Allowed users to instantiate an auction room for a item, which carries a unique link that they share on Craigslist/Facebook, and interested buyers click on the link to make bids on the item
- Made a dashboard to organize buyers and gain naturally adjust price if the item is popular

Dorm Ex Machina   *Github: git.io/vyfyf*
- Created an Arduino system that uses RFID and Bluetooth to check if 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

Languages – Python, Java, C, Ruby, JavaScript, SQL, Scheme
Frameworks/Libraries – jQuery, Node.js, React.js, Django, Express, Rails