Justin Mi

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Education

University of California, Berkeley Berkeley, CA

BS, Electrical Engineering and Computer Science (EECS) *May 2019*

Major GPA: 3.9; Coursework: Data Structures, Algorithms, Discrete Math, Probability Theory, Linear Algebra, Computer Architecture, Information Systems & Devices Design, Multivariate Calculus

Experience

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 2 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

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

Pablo

- Created a Facebook Messenger bot that allows users to have anonymous conversations through it
- Deployed on DigitalOcean virtual server, used Ruby and Rails as language and framework
- Used Facebook API to integrate Ruby backend with webhook
- Created dashboard to allow administrators to mass-send casual updates to all bot subscribers

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

Platforms/Libraries – jQuery, Node.js, React.js, Django, Express, Rails