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, Databases, Discrete Math, Probability Theory, Linear Algebra, Computer Architecture, Information Systems & Devices Design, Multivariate Calculus

Experience

Stripe — San Francisco, CA
Software Engineering Intern — *May 2018 - Aug 2018*
- Converted Stripe's global Instant Payouts infrastructure gateway to a new partner
  - Achieved 100% routing reliability for entire $4B+ annualized global Instant Payouts volume
  - Provided nearly 100% uptime and stability for clients like Lyft, Instacart, Postmates, and DoorDash
  - $1M+ in annualized cost savings (doubling annually) in reduced vendor fees
  - Freed a 1+ year backlog in engineering resources
- Addressed a top ask for Lyft and Instacart by creating more granular Instant Payouts return messages

Blueprint, Technology for Nonprofits — Berkeley, CA
Project Lead — *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%
- Designed and created an offline-first attendance-tracking mobile application for client DREAM in the Dominican Republic to track student progress in underserved communities.

CITRIS Institute — Berkeley, CA
Software Engineering Intern — *May 2017 - May 2018*
- 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 5 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

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 - May 2018*

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.

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
- Won 1st place in Robotics@Berkeley's 2016 invention competition. Video: bit.ly/2fYhVmH

Skills and Qualifications

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