

# Justin Mi

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## Education

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### 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

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### Stripe

San Francisco, CA

*Software Engineering Intern*

*May 2018 - Present*

- Converted Stripe's global Instant Payouts infrastructure gateway to a new vendor
- Achieved 100% routing redundancy for entire \$3B+ annualized global Instant Payouts volume
- Achieved nearly 100% uptime and stability for clients like Lyft, Instacart, Postmates, and Care.com
- \$1M+ in annualized cost savings (doubling annually) in reduced vendor fees
- Freed a 1+ year backlog in engineering resources
- Enabled Stripe to more quickly scale Instant Payouts into international regions

### 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](http://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

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### CAFE

[opinion.berkeley.edu/pcari](http://opinion.berkeley.edu/pcari) | [opinion.berkeley.edu/free-speech](http://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](https://github.com/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](https://bit.ly/2fYhVmH)

## Skills and Qualifications

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**Languages** – Python, Java, C, Ruby, JavaScript, SQL, Scheme

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