Justin Mi

justin.mi@berkeley.edu https://github.com/JustinMi Mobile: (408) 896-0496

Education

University of California, Berkeley Berkeley, CA

BS, Electrical Engineering and Computer Science (EECS) *August 2016 to May 2020*

Coursework: Data Structures, Discrete Mathematics, Probability Theory, Linear Algebra, Differential Equations, Introduction to CS, Designing Information Systems and Devices, Multivariable Calculus

Experience

Berkeley Institute for Data Science Berkeley, CA

Undergraduate Researcher – Machine Learning *September 2016 to Present*

- Used machine learning (clustering, random forest, regression, PCA) to identify traits of invasive species
- Classified 3000 species using machine learning, reducing need for expert analysis and manual classification
- Achieved a classification accuracy of 87% for at-risk plants in the US, Australia, and the Pacific islands
- Integrated the ML model with an interactive web front end to simplify and visualize the classification process

Berkeley Laboratory for Automation Berkeley, CA

Linux Systems Administrator & Web Developer *February 2017 to Present*

- Worked under Prof. Ken Goldberg to maintain 28 AUTOLAB websites and web projects on a private server
- Used Linux, Apache, MySQL, and PHP (LAMP) to maintain websites
- Assisted with basic networking, IP configuration, SSH, and network security

Blockchain@Berkeley Berkeley, CA

Software Developer – Blockchain *November 2016 to February 2017*

- Developed blockchain for supply chain and shared economy solutions using Ethereum for Airbus and Ford
- Used Ethereum to develop a blockchain accounting system that prevents financial fraud in large corporations

Projects

Dorm Ex Machina *Github: git.io/vyfyf*

- Arduino robotic 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

Where to Eat *Github: git.io/vyfyR*

- Uses machine learning and the Yelp academic dataset to predict favorite restaurants, shows visualization.
- Used statistical techniques to predict user ratings for similar restaurants based on previous ratings.

Pablo

- A Facebook Messenger bot that allows club officers to mass-send casual updates to all bot subscribers.
- Syncs with a user's weekly schedule to automatically send individualized reminders about events.
- Can coordinate and suggest solutions if there are scheduling conflicts.

Activities

CS 61a – *Lab TA* Berkeley, CA. *January 2017 to Present*

- Provided tutoring and homework assistance in weekly labs for 30 students in Berkeley's intro CS course
- Held weekly office hours to help 5-10 students on homework, lab, and projects

Skills and Qualifications

Experienced – Python, Java, Ruby, Rails, HTML, CSS, Javascript, SQL, LaTeX, Git, Django, AngularJS, jQuery, Node.js, Scheme, CAD, Mandarin Chinese

Proficient – PostgreSQL, Lisp, Ethereum, Solidity, LabVIEW