Justin Mi

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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

Software Developer – Machine Learning *September 2016 to Present*

- Built webapp using Django to allow users to upload their own datasets and use the model
- Worked on full stack using CSS, HTML, jQuery, ajax, REST to create web app
- Used machine learning (clustering, random forest, regression, PCA) to identify traits of invasive species
- Classified 3000 species using machine learning; achieved a classification accuracy of 87% for at-risk plants, reducing need for expert analysis and manual classification

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, built 2 new websites using WordPress
- Assisted with basic networking, IP configuration, SSH, and network security

Projects

Pablo

- Built a Facebook Messenger bot using Ruby and Rails that allows users to have anonymous conversations with other users through it
- Deployed on DigitalOcean virtual server
- Worked with Facebook API to integrate Ruby backend to webhook
- Wrote API that made calls to access users based on unique IDs
- Wrote algorithm to pair users up pseudorandomly, preventing repeated pairings.
- Allow club officers to mass-send messages to all bot subscribers.
- Syncs with a user's weekly schedule to automatically send individualized reminders about events.

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 k-means clustering, a Voronoi diagram, 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.

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 homeworks, labs, and projects

Skills and Qualifications

Experienced – Python, Java, Ruby, Rails, HTML, CSS, Javascript, SQL, LaTeX, Git, Django, jQuery,

Node.js, MongoDB, AngularJS, PHP, LAMP stack, MEAN stack, Mandarin Chinese
Proficient – PostgreSQL, Lisp, Ethereum, Solidity, LabVIEW