

Rohan Taori

<http://rohantaori.com/> | rohantaori@berkeley.edu | (408) 505-4471 | San Francisco Bay Area

Education

UC Berkeley Electrical Engineering and Computer Science, Class of 2020

Aug 2016

GPA: 4.0 – Courses: Intro CS, Intro EE, Physics E&M

Awards: Regents' and Chancellor's Scholar (top 4% of incoming class)

Experience

Gradient Descent Optimization Research – Prof. Carlo Sequin

Aug - Dec 2016

- Created a program to visualize a near-miss Johnson solid in Python using OpenGL
- Formed approach to reduce the solid's 42-dimensional space into 5, then developed cost function for its irregularity
- Implemented gradient descent to find the optimal solid in various configurations and patterns

Software Automation Engineer – Dreamable

Jun - Aug 2016

- Worked closely with company founders on early-stage product development
- Created complete UI test suites for each of the company's platforms: web, iOS, and Android
- Technologies: Rspec, Selenium Webdriver, Capybara, UITest, C#, Ruby, HTML

Software Development Intern, Test Cloud – Xamarin [Now Microsoft]

Jun - Aug 2015

- Developed cross-platform test suites using UITest in C# and Calabash in Ruby
- Worked on apps from Uber, Pinterest, and Trello, giving engineers feedback on app performance
- Spearheaded the rollout for UI scripting support on Appium's Java framework

Project Highlights

Programming Language Classification – Partnership with GitHub

Aug - Dec 2016

- Member of ML@B team partnering with Github to improve their existing language classifier
- Wrote a Stratified K-Fold Cross Validation scheme to improve error metrics on SVC and RF classifiers
- Implemented an LSTM 2-layer Recurrent Neural Net to learn better representations of language data
- Reduced classification time by 90% and classification error rate by 40%, presentation at GitHub HQ All-Hands

Take a Picasso – Best Hardware Hack @ CalHacks

Nov 2016

- Built a robotic sketch artist that takes a picture of a user and creates a pencil sketch on canvas
- Wrote an Arduino script to control stepper motor movements based on canvas coordinate destinations
- Used OpenCV to find contours of the user's face and vectorize the sketch into a set of lines

MyFi.py

Oct 2016

- Created an online service that allows users to view real-time attendance at various events around them
- Used wifi pinging capability via fping to estimate device and person counts
- Implemented Firebase backend for storing and rendering information a live website with JS

Rekt – 1st Place Winner @ OHacks

Feb 2016

- Developed an iOS app that introduces a streamlined way to help flustered drivers deal with accident logistics
- Features include easy emergency contact, storing accident pictures, and quickly exchanging information
- Worked on accident information to store crash pictures and use Google Maps API to share location

Recognition

Best Hardware Hack and Best 3D Printing Hack for the project Take a Picasso – CalHacks

Perfect score, one of only 67 out of 50,000 students worldwide – Computer Science AP test

2nd place in Advanced, out of 60+ teams – Silicon Valley Hewlett-Packard CodeWars

2nd place in Advanced and team with most solved problems – Lockheed Martin CodeQuest

Skills

Languages: Java, Python, C#, Ruby, HTML/CSS/JS

Areas: data structures and algorithms, software automation, machine learning