PRANSU DASH

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EDUCATION

University of California, Berkeley - B.A. Computer Science, Major GPA 3.9 ***2016 - Present***

Lynbrook High School - GPA 4.2 ***2012 - 2016***

EXPERIENCE

UC Berkeley - CS 61A Lab Assistant ***August 2016 - present, Berkeley CA***

I help students in UC Berkeley's SICP (CS61A) course (3 hours/week) on the course material ranging from syntax to abstract computer science topics. I also teach lessons to classes of 25 students on major topics before midterm and final exams.

Scry Analytics - Computer Science Intern ***Jun 2015 - Aug 2015, San Jose CA***

Built a natural language processing module for real-time lexical analysis of customer service phone conversations. Completed a working prototype that used a speech recognition library with my custom additions that improved efficiency in many cases. Worked on a market analysis for product development in a 2 month time frame.

Dabkick - Android App Developer ***Jun 2014 - Aug 2014, Cupertino CA***

Migrated video playing and sharing features from Dabkick's iOS app to Android. Integrated YouTube video support and used Google APIs to support VEVO music videos. Used the OpenYouTubePlayer API to implement a video search feature in the app.

PROJECTS

Stanford Pre-College Institutes in Artificial Intelligence ***Summer 2015***

A 3-week long, residential summer program where I took AI classes at Stanford University. I completed various small projects on AI-relevant topics such as A-star search, heuristic creation, clustering algorithms, image manipulation, and evolutionary computation. Additionally, I worked a larger, final project that used speech recognition libraries with my group's custom built lexicographic and phonetic dictionaries to create locks for our dorm room's that activated at the sounds of our voices. I worked on creating the phonetic dictionary and making the system respond only to specific voices.

IoT Keys ***October 2016***

Created during the October 2016 IoTHacks hackathon at UC Berkeley. My team's project was to create a "virtual key" as a means of access to different locks. We used a smartphone as the key which could, via internet, unlock an internet-enabled lock. Our application was for package deliveries; by using your phone as a key to your package or mailbox, we could prevent package theft. I worked on some electrical components of this project like the physical lock system, using HTTP GET and POST requests for data transfer, and building the Android application for our demo.

Traffic Nets ***March 2016***

A science/engineering project conducted in 2015-2016 with my sister. We attempted to improve the way automobile traffic is directed. By analyzing current traffic statistics, we could cluster drivers with similar destinations and driving styles using a k-means clustering algorithm. We then directed each cluster on a unique route, minimizing the travel of any one vehicle. Our project won the IBM Award for Computing at the 2016 Santa Clara Valley Science and Engineering Fair.

Haas School of Business Business Academy ***Summer 2014***

A 2-week long summer business education program. My group created a slide deck and recommendation for Apple's next steps as a consumer tech company with a heavy focus on its innovation.

SKILLS

Java, Python, HTML, CSS, JavaScript, Scheme (LISP-based), C++, iOS/Android Development, SQL/MySQL, GIMP/Photoshop, Arduino

ACCOLADES

- 2016 AP Scholar with Distinction
- 2016 Santa Clara Valley Science and Engineering Fair - IBM Computing Award
- 2015 Santa Clara Valley Science and Engineering Fair - 2nd Place in Engineering Category
- 2013, 2014 FIRST Robotics Competition Championships Qualifier (Lynbrook Robotics, Team 846)
- 2012 FIRST Lego League World Championships Qualifier, NorCal Champion (www.botworks.co.nr)