# Pransu Dash

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## EDUCATION

**University of California, Berkeley** - B.A. Computer Science, CS GPA 3.85 ***2016 - Present***

- Courses: Structure and Interpretation of Computer Programs (CS61A), Data Structures and Algorithms (CS61B), Designing Information Devices and Systems (EE16A), Great Ideas in Computer Architecture (CS61C), Discrete Math and Probability Theory (CS70), Linear Algebra and Differential Equations (Math 54)

**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 - Natural Language Processing Research Intern** ***Jun 2015 - Aug 2015, San Jose CA***

Prototyped 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 custom additions in Java. Worked on a market analysis for product development in a 2 month time frame.

**Dabkick - UX, Android Application 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

**Lawyer Up** ***March 2016***

- Web and Mobile app that connects lawyers and clients using keyword recognition and location-based search
- Built front end of website using HTML, CSS, jQuery, and Bootstrap framework
- Built back end of website using Google Firebase, jQuery

**Traffic Nets** ***March 2016***

- Analyzed local traffic statistics, clustered drivers with similar destinations and driving styles together using a k-means algorithm, redirected each cluster along a unique route for most efficient traffic management

**Smart Gun** ***March 2015***

- Modified a toy gun to model my smart gun which is automatically disabled when near a school
- Used Arduino Uno and Spark Core WiFi module to control a lock on a personal firearm when near a school WiFi using UUIDs

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

- 3-week class with completed projects on A-star search, heuristics, clustering, image manipulation, and evolutionary computation
- Final project on speech recognition using CMU Sphinx library to create a phonetic dictionary and respond to certain voices

**IoT Keys (IoTHacks Hackathon @ UC Berkeley)** ***October 2016***

- Project was a virtual key as means of access to different locks by using a smart phone as the internet-enabled key
- Has applications for using phone as a unique access key to an internet-enabled lock on packages to prevent package theft
- I worked on the electronic lock system hardware, used an HTTP for data transfer, and built the Android application for our demo

**Personal Recall Notifier** ***2011 - 2013***

- Built Android app which, when paired with a systematic subscription model with grocery stores, improves food recall notification time
- Team was picked from 300+ global submissions as a Top 10 finalist in the Global Innovation Award Challenge, Honorable Mention finalist in Conrad Spirit of Innovation Challenge, 1st Place Project in FIRST Lego League 2011
- Patent pending, provisional patent issued (Read more at botworks.weebly.com)

## SKILLS

**Java, Python, C/C++, HTML, CSS, JavaScript, Bootstrap, Node.js, Scheme, Swift, iOS/Android Dev, SQL, 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 (botworks.weebly.com)