Pransu Dash

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EDUCATION

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

- Coursework: 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)

EXPERIENCE

UC Berkeley - CS 61A Lab Assistant ***August 2016 - Present***

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 ***June 2015 - August 2015***

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 ***June 2014 - August 2014***

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

Laywer Up ***August 2016 - Present***

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

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

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

Traffic Nets ***March 2016***

- Built a model that analyzed local traffic statistics, clustered drivers with similar destinations and driving styles together using a k-means algorithm, and 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

SKILLS

Java, Python, C/C++, HTML, CSS, JavaScript, Bootstrap, SQL, Swift, iOS/Android, GIMP/Photoshop, Arduino

AWARDS

- 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)