**Apollo Jain**

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**EDUCATION**

**UC Berkeley –**Berkeley, CA

B.S. Electrical Engineering and Computer Science

Minor: Energy Engineering

GPA: 3.43

**Relevant Coursework:** CS61A (Structure and Interpretation of Computer Programs), CS61B (Data Structures), CS61B (Data Structures), CS61C (Great Ideas in Computer Architecture), EE20 (Signals and Systems), EE40 (Circuits), EE127 (Optimization Models)

**RELEVANT WORK EXPERIENCE**

**Undergraduate Researcher** under **Laurent El-Ghaoui** – Berkeley, CA *(February 2015 - Present)*

* Learned the basics of Linear, Quadratic, and Geometric Programming
* Learned to optimize problems dealing with Matrix sparsity of Non-Polynomial norm-based programming problems
* Currently working with toy problems dealing with energy models of major cities in Europe
* Will eventually work on problems using Markowitz Portfolio Optimization and Monte Carlo Options Pricing independently
* Learned to use NumPy and the CVX Matlab extension to solve aforementioned problems.

**Software Developer** at **LED Alternative Energy** – Berkeley, CA *(June – August 2014)*

* Used MeteorJS for rapid prototyping. Used Ruby on Rails, PostgreSQL, AngularJS and the Spree E-Commerce Platform to create an e-commerce site for the company. Also created Python Scripts to manage the bulb-matching feature of the website on the back end. Also began work on an Android app using the Parse SDK

**Math Researcher** at **University of Richmond** – Richmond, VA *(June – August 2013)*

* Used the Groups, Algebra, Programming (GAP) and C++ Languages in order to create software to facilitate the discovery of McFarland Constructions of Difference Sets for the National Security Agency.
* Continued work on research in Error-Correcting Codes and Quadratic Forms with the university until May of 2014.
* Received acknowledgments for contributions in computer programming in two papers currently pending being published.

**SKILLS**

* Programming Experience – C, MIPS, HTML, CSS, JavaScript, PHP, JQuery, SQL, Python, Ruby on Rails, Java, MongoDB, MeteorJS, AngularJS, Android, GAP
* Public Speaking

**ORGANIZATIONS**

**Member** at **California Solar Car Team** *(December 2014 - Present)*

* Debugged various errors with the BMS and battery packs on the car
* Crimped and Installed wiring between the battery back, BMS, and motors
* Helped to debug and fix thermistor circuits that were contributing to problems with the car

**Head of IR** at **Hackers at Berkeley** *(September 2014 - Present)*

* Joined the Club in September of 2013
* Led an Android Workshop with over 200 attendees
* Created a 10 page New Officer Guide for the club to make it easier for new officers to get used to the flat, non-bureaucratic nature of the leadership team as well as the general structure and functionality of each cohort (i.e. Workshop, Media, Industrial Relations, and Operations teams).
* Currently organizing Sponsor Packages and recruiting for Hackathon Sponsors

**President** at **Bowles Hall** *(August 2013 - December 2013)*

* Organized numerous social events for the dorm, including Serenades, Cookouts, and a Superbowl Party
* Helped Organize two Unit-wide dances
* Motivated the dorm to participate in a school-wide Canned Food Drive Competition, in which Bowles Hall raised more cans than any other dorm despite being the smallest residence hall on campus.

**AWARDS**

* Outstanding Delegate at North American Invitational United Nations
* National Semifinalist at Moody’s Mega Math Challenge Case Competition