

APOLLO JAIN

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CURRENT ADDRESS

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EDUCATION

UC BERKELEY — BERKELEY, CA

BS ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

GPA: 3.43

COURSEWORK: STRUCTURE AND IMPLEMENTATION OF COMPUTER PROGRAMS, DATA STRUCTURES, GREAT IDEAS IN COMPUTER ARCHITECTURE, SIGNALS AND SYSTEMS, DISCRETE MATHEMATICS AND PROBABILITY, CIRCUITS, OPTIMIZATION MODELS IN ENGINEERING

RELEVANT WORK EXPERIENCE

UNDERGRADUATE RESEARCHER UNDER **LAURENT EL-GHAOUI** — BERKELEY, CA (*FEBRUARY 2015 - PRESENT*)

SO FAR, I HAVE LEARNED THE BASICS OF LINEAR, QUADRATIC, AND GEOMETRIC PROGRAMMING USING NUMPY AND MATLAB, LEARNED TO OPTIMIZE PROBLEMS DEALING WITH MATRIX SPARSITY OF NON-POLYNOMIAL NORM-BASED PROGRAMMING PROBLEMS. I AM CURRENTLY WORKING WITH TOY PROBLEMS DEALING WITH ENERGY MODELS OF MAJOR CITIES IN EUROPE. I WILL HOPEFULLY USE MY SKILLS TO LATER TACKLE MY OWN FINANCE RESEARCH PROBLEMS DEALING WITH PORTFOLIO OPTIMIZATION, STOCHASTIC PROGRAMMING, AND MONTE CARLO OPTIONS PRICING.

SOFTWARE DEVELOPER AT **LED ALTERNATIVE ENERGY** — BERKELEY, CA (*JUNE — AUGUST 2014*)

ON THE JOB, I USED METEORJS FOR RAPID PROTOTYPING. I USED RUBY ON RAILS, POSTGRESQL, ANGULARJS AND THE SPREE E-COMMERCE PLATFORM TO CREATE AN E-COMMERCE SITE FOR THE COMPANY. I ALSO CREATED PYTHON SCRIPTS TO MANAGE THE BULB-MATCHING FEATURE OF THE WEBSITE ON THE BACK END.

MATH RESEARCHER AT **UNIVERSITY OF RICHMOND** — RICHMOND, VA (*JUNE — AUGUST 2013*)

DURING MY TIME THERE, I 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. I CONTINUED WORK ON RESEARCH IN ERROR-CORRECTING CODES AND QUADRATIC FORMS WITH THE UNIVERSITY UNTIL MAY OF 2014 AND RECEIVED ACKNOWLEDGMENTS FOR CONTRIBUTIONS IN COMPUTER PROGRAMMING IN TWO PAPERS, ONE OF WHICH IS BEING PUBLISHED AND THE OTHER OF WHICH IS PENDING BEING PUBLISHED.

SKILLS

- PROGRAMMING EXPERIENCE — C, MIPS, HTML, CSS, JAVASCRIPT, PHP, JQUERY, MYSQL, PYTHON, RUBY ON RAILS, JAVA, MONGODB, METEORJS, ANGULARJS, ANDROID, PERL, EXCEL, MATLAB, NUMPY
- PUBLIC SPEAKING SKILLS — WON NUMEROUS AWARDS IN MODEL UNITED NATIONS, INCLUDING AN "OUTSTANDING DELEGATE" AWARD AT THE NORTH AMERICAN INVITATIONAL MODEL UNITED NATIONS CONFERENCE, THE LARGEST AND ARGUABLY MOST PRESTIGIOUS MODEL UN CONFERENCE IN THE WESTERN HEMISPHERE

ORGANIZATIONS

HACKERS AT BERKELEY (HEAD OF IR) — LED A WORKSHOP ON ANDROID THAT WAS ATTENDED BY AROUND 250 PEOPLE. HANDLE EMAILS AND CHECKS FROM SPONSORS FOR VARIOUS EVENTS.

PROJECTS - [HTTPS://GITHUB.COM/APOLLOJAIN](https://github.com/apollojain)

- **STARTING STRENGTH**— CREATED AN ANDROID APPLICATION THAT ALLOWS PEOPLE TO WATCH VIDEOS ON FORMS OF BASIC COMPOUND LIFTS, RECEIVE DIET ADVICE, AND KEEP TRACK OF BASIC LIFTS USING A SQLITE DATABASE AND THE YOUTUBE API. CURRENTLY HAS JUST UNDER 5000 DOWNLOADS. YOU CAN FIND IT IN THE APP STORE UNDER THE USERNAME "AJ95."
- **SPORTIFY** ([HTTP://GLACIAL-BAYOU-9540.HEROKUAPP.COM/](http://glacial-bayou-9540.herokuapp.com/)) - CREATED A WEB APP USING RUBY ON RAILS, POSTGRESQL, DEVISE (FOR USER AUTHENTICATION), HTML, CSS, JAVASCRIPT, AND GOOGLE MAPS API (FOR DISPLAYING MAPS) THAT ALLOWS FOR USERS TO CREATE, EDIT, RSVP TO, AND COMMENT ON PICK-UP SPORTS GAMES.
- **SWAG CRIBZ** ([HTTPS://GITHUB.COM/HUADIANZ/SWAG](https://github.com/HUADIANZ/SWAG)) — CREATED AN APP WITH TWO OTHER TEAM MATES THAT UTILIZES JAVASCRIPT, AJAX, GOOGLE MAPS API, AND THE .NET FRAMEWORK IN ORDER TO DISPLAY RATINGS FOR LOCATIONS BASED ON PROXIMITY TO CERTAIN PLACES (SCHOOLS, LIBRARIES, STORES, CLUBS, BARS, ETC.). CRITERIA IS BASED ON WHETHER INTERESTED IN MOVING TO AN AREA BY YOURSELF OR WITH A FAMILY. TOP 5 PLACEMENT AT THE 2014 CSUA HACKATHON.