

Jack Lin

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EDUCATION	University of California Berkeley Bachelor of Science, EECS(pending/emphasis) Engineering Physics. Expected graduation date: Fall 2014/Spring 2015	Fall 2012 - Present
RELATED COURSEWORK	CS61A Structure of Computer Program CS70 Discrete Mathematics <i>EE127 Optimizations[in progress]</i> CS194 Intro to Data Science [auditing]	CS61B Data Structures <i>EE122 Computer Networking</i> <i>STATS 133 Computing with Data [in progress]</i> Info 290 Data Mining [auditing] CS61C Architecture <i>CS170 Algorithms</i> <i>CS186 DBMS [in progress]</i>
EXPERIENCE	Research Volunteer <i>University of California, Berkeley</i> <ul style="list-style-type: none">Building a vending machine survey platform that is capable of synchronous communication from multiple client.Utilizing Node.js, mongodb and jade for setting up a login platform capable of storing and validating surveys for client. Lab Intern <i>University of California, Irvine</i> <ul style="list-style-type: none">Investigated the fabrication of ultra-smooth metals for diffusion bonding driven template - strippingPrepared vesicle fusion using tethered phospholipid bilayer membrane for graphene growth	2013 Summer - Present 2012 - Summer
PROJECTS	Firewall <ul style="list-style-type: none">Simple Firewall allowing user to block TCP/UDP/ICMP packet by country, IP or domain nameProvide a detailed log of website visitedEnable the functionality of injecting RST to avoid subsequent SYN packet after denying the first Course Recommender <ul style="list-style-type: none">https://bearrec.herokuapp.com/Using Python Beautiful Soup framework to scrape data from UC Berkeley catalogue for a list of offered courses for further data compilation.Utilizing Vector Space Model TFIDF for similarity analysis and lemmatization processing with user input keyword using Python's Pattern Module.Hosting the user interface for the above functionality on Heroku for public usage. MapReduce via Hadoop on Amazon EC2 <ul style="list-style-type: none">Perform graph search using Map Reduce to analyze "six degree of separation" problems on Amazon EC2 cloud server.	
TECHNICAL SKILLS	Programming Languages <ul style="list-style-type: none"><i>Experienced with:</i> Python, Java<i>Familiar with:</i> HTML, LATEX, Javascript, Node.js<i>Learning:</i> Ruby, R, SQLite Micellaneous <ul style="list-style-type: none"><i>Operating Systems:</i> Mac OSX, Linux<i>Frameworks:</i> Flask, Bottle, MrJob<i>Tools:</i> Git, Emacs, Eclipse, Heroku, VirtualBox	