Jack Lin

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EDUCATION

University of California Berkeley Fall 2012 - Present
Bachelor of Science, EECS(pending/emphasis) Engineering Physics. [CS only GPA: 3.54]
Expected graduation date: Fall 2014/Spring 2015

RELATED COURSEWORK

CS61A Structure of Computer Program	CS61B Data Structures	CS61C Architecture
CS70 Discrete Mathematics	*EE122 Computer Networking*	*CS170 Algorithms*
EE127 Optimizations[in progress]	*STATS 133 Computing with Data [in progress]*	*CS186 DBMS [in progress]*
CS194 Intro to Data Science [auditing]	Info 290 Data Mining [auditing]	

EXPERIENCE

Research Volunteer 2013 Summer - Present
University of California, Berkeley

- Built a vending machine survey platform that is capable of synchronous communication from multiple client.
- Utilized Node.js, mongodb and jade for setting up a login platform capable of storing and validating surveys for client.

Lab Intern 2012 - Summer
University of California, Irvine

- Investigated the fabrication of ultra-smooth metals for diffusion bonding driven template - stripping
- Prepared vesicle fusion using tethered phospholipid bilayer membrane for graphene growth

PROJECTS

Firewall

- Built a Simple Firewall allowing user to block TCP/UDP/ICMP packet by country, IP or domain name
- Provided a detailed log of website visited
- Enabled the functionality of injecting RST to avoid subsequent SYN packet after denying the first

Course Recommendator

- https://bearrec.herokuapp.com/
- Used Python Beautiful Soup framework to scrape data from UC Berkeley catalogue for a list of offered courses for further data compilation.
- Utilized Vector Space Model TFIDF for similarity analysis and lemmatization processing with user input keyword using Python's Pattern Module.
- Hosted the user interface for the above functionality on Heroku for public usage.

MapReduce via Hadoop on Amazon EC2

- Performed graph search using Map Reduce to analyze "six degree of separation" problems on Amazon EC2 cloud server.

TECHNICAL SKILLS

Programming Languages

- *Experienced with:* Python, Java
- *Familiar with:* HTML, LATEX, Javascript, Node.js
- *Learning:* Ruby, R, SQLite

Micellaneous

- *Operating Systems*: Mac OSX, Linux
- *Frameworks*: Flask, Bottle, MrJob
- *Tools*: Git, Emacs, Eclipse, Heroku, VirtualBox