Jack Chou

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EDUCATION

2012 – 2016	**University of California, Berkeley**	GPA: 3.34/4.00

B.S. Electrical Engineering and Computer Science (EECS)
- ▸ Regents' and Chancellor's Scholarship candidate (top 2% of all UC Berkeley applicants)
- ▸ Eta Kappa Nu (HKN) international EECS honor society member

2008 – 2012	**San Ysidro High School** *Valedictorian*	GPA: 4.00/4.00

SKILLS

Languages	Python > Java > C/C++ > CSS > HTML > JavaScript > SQL > Ruby > Scala > MIPS > LISP
Security	▸ Wireshark, Nessus, Snort, Metasploit, Kali Linux, Nmap/Netcat, iptables, gdb, SSH/PuTTY, GPG, Scapy, Windows Sysinternals (procexp, tcpview, autoruns), Lynis, John the Ripper, hex editors
Environments	▸ UNIX, Windows, Vim, VMware, vSphere, VirtualBox, Android SDK, IntelliJ IDEA, MS Visual Studio
Frameworks	▸ Apache Spark, Apache Hadoop MapReduce, Ruby on Rails, Twitter Bootstrap

EXPERIENCE AND INVOLVEMENT

Aug 2013 – present — UC Berkeley SA Information Technologies

Lead Security Engineer *(Dec 2014 – present)* | ***Security Engineer*** *(Aug 2013 – Dec 2014)*
- ▸ Lead a team of 8 to design, audit, and enforce security operations and policy across campus.
- ▸ Spearhead web/mobile application projects and internal tools development focused on security.
- ▸ Train and educate employees and students by holding workshops on security-related topics.
- ▸ Investigate and resolve network security incidents to protect sensitive data and 10,000+ hosts.

Jan 2013 – present — BERKE1337 Cyber Security Team

President, Team Captain | *1st place, Western CCDC 2014 & 2015* | *2nd place, National CCDC 2015*
- ▸ Defend vulnerable networks from active attackers while maximizing critical service uptime.
- ▸ Facilitate teamwork by delegating tasks, mediating conflicts, and keeping the team focused.

May 2015 – Aug 2015 — Visa

Enterprise Security Architecture Intern
- ▸ Architect a network security zoning framework across Visa's global enterprise infrastructure.
- ▸ Execute a proof of concept for seamless and robust virtualized infrastructure encryption.

May 2013 – Aug 2013 — UC Berkeley SA Information Technologies

Residential Computing Consultant | *Supported 8,000+ residents* | *1 of 15 hires out of 300+ applicants*

SELECTED PROJECTS (see full list of projects at jchou.github.io)

Feb 2015	**Distributed query subroutine caching** — *Scala	Apache Spark*	
	Distributed processing bottleneck reducer via hash partitioning (disk) and UDF caching (memory)	
Feb 2015	**SecureMe** — *Java	Android SDK	Android Studio*	
	Simple security diagnostic checklist for any Android device	
Apr 2014	**bwReport** — *Python	Cisco NetFlow*	
	Filterable Ethernet & RADIUS Wi-Fi network traffic report generator	
Mar 2014	**DNS spoofer** — *Python	Scapy*	
	DNS server impersonator that redirects unsuspecting users to chosen destinations	

ACADEMIC COURSEWORK

Data Structures	Computer Security	Computer Architecture
Efficient Algorithms	Networking Architecture & Protocols	Operating Systems (*current*)
Software Engineering	Database Systems	UI Design and Development (*current*)
Virtual Communities	Society and Technology	Sensors, Humans, Data, Apps (*current*)

AWARDS AND HONORS

2012–present	▸ Recipient of the Berkeley Undergraduate Scholarship
2015	▸ 2nd place winner (*SecureMe*) of the 2015 UC Berkeley campus-wide mobile app competition
2015	▸ Director of Public Relations for UC Berkeley IEEE, Best 2014 Student Engineering Organization
2014	▸ Best Non-Profit Organization Hack (*Hall of Time*) at the Cal Blueprint Social Good Hackathon
2012	▸ College of Engineering Dean's Honors