

Jack Chou

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EDUCATION

2012 – 2016 **University of California, Berkeley**

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**

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 (procdump, 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 – Visa

Aug 2015 **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 – UC Berkeley SA Information Technologies

Aug 2013 **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 (<i>current</i>)
Software Engineering	Database Systems	UI Design and Development (<i>current</i>)
Virtual Communities	Society and Technology	Sensors, Humans, Data, Apps (<i>current</i>)

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