

Jack Chou

jchou.github.io | jackshchou@gmail.com

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 (procxp, 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 2016 - present **NerdWallet**
Software Engineer
- ▶ Provide platform, identity, and engagement services to the engineering team.
- Aug 2013 – May 2016 **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 – May 2016 **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.

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

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

AWARDS AND HONORS

- 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