# Jack Chou

# jchou.github.io | jackshchou@gmail.com

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2012 – 2016 University of California, Berkeley GPA: 3.2/4.0

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: 4.0/4.0

**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, Intelli] IDEA, MS Visual Studio

Frameworks 

Apache Spark, Apache Hadoop MapReduce, Ruby on Rails, Twitter Bootstrap

### **EXPERIENCE AND INVOLVEMENT**

Aug 2016 - **NerdWallet** 

present **Software Engineer**▶ Provide platform, identity, and engagement services to the engineering team.

Aug 2013 – UC Berkeley SA Information Technologies

May 2016 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 - BERKE1337 Cyber Security Team

May 2016 **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.

#### **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

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

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