

Daniel Jackoway

job@danieljackoway.com

Experience

- **Matasano Security** **Mountain View, CA**
Security Research Intern *June 2013-September 2013*
 - Audited client projects, focusing on cryptography systems.
 - Found and reported exploit in OTR encrypted instant messaging protocol.
 - Advanced the implementations of the TACK TLS certificate pinning protocol.
 - Audited the Go language's TLS stack.
 - **Cloudera, Inc.** **Palo Alto, CA**
Software Engineering Intern *June 2011-September 2012*
 - **Summer 2012:** Impala (low-latency SQL on Hadoop) team. Extensively optimized the hash aggregation algorithm, with emphasis on optimally utilizing the processor cache. Gave Stanford ACM tech talk about this work.
 - **December 2011:** Developed a realistic MapReduce pipeline benchmark.
 - **Summer 2011:** Developed HBase-backed Django webapp that aggregates internal data.
 - **Stanford Computer Science Department** **Stanford, CA**
Section Leader *September 2011 – Present*
 - Section leader for introductory courses (CS 106A/B). Responsibilities include teaching a small weekly section, holding office hours, grading, and meeting with students to give feedback on their code.
 - Led workshop for new section leaders about underrepresented minorities in CS.
 - Fall 2013: Section leader for CS 144 (Computer Networking).
 - **Ruby Summer of Code** **Remote**
Student Participant *June 2010-September 2010*
 - Expanded the Ruboto project from an Android Ruby shell to a platform for creating full apps.
 - Spoke at RubyConf 2010 about this work.
 - **Seven Scale, LLC** **Remote**
Software Engineering Intern *April 2009-September 2009*
 - Web development with Ruby on Rails and Sinatra.
 - Infrastructure automation with Capistrano.
 - Built a full-text search service with Tokyo Cabinet.
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Education

- **Stanford University** **Stanford, CA**
Pursuing B.S. Computer Science, minor in History *September 2010-June 2014*
 - GPA: 3.9. In-major GPA: 4.1
 - With a partner, placed 4th of 100 in implementation performance contest in CS 161 (Algorithms).
 - Project Lead for Code the Change hackathon for social good.
 - Live-in peer counselor at The Bridge, the 24/7 volunteer peer counseling center at Stanford. The four live-ins work as a team to staff all overnight shifts, lead the 70-student organization, build community, and solve problems as they come up.
 - Structured Liberal Education writing tutor.
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Core Technical Skills

Skills: Performance engineering, systems programming, computer security.

Languages: C, C++, Java, Python, Ruby, JavaScript, Go.

Databases: HBase, MySQL, Redis.

Data Processing: Hadoop, Pig, R.