

# Aslam Tajwala

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## Skills

**Programming Languages:** Ruby, C/C++, Java

**Scripting:** Unix shell, Applescript, Tcl/Expect

**Environments:** Unix/Linux, Amazon Web Services, Mac OSX, Solaris

**Web stack:** Rails 3.x, JavaScript, CSS3, HTML5, Ajax, JSON, XML

**Databases:** MySQL, NoSQL (MongoDB)

**Played with:** JQuery, Mongrel, Content caching (Memcache)

**Source control:** Git, SVN, CVS

**Miscellaneous:** OpenSSL, HTTP, Flash, GDB, TCP/IP, Ethereal/TcpDump

## Work Experience

- **Mail2share** Self contributor  
*Web Programmer* *Aug. 2010 - Present*
  - Developed a RESTful webapp, Mail2share - to test the need for a social Inbox; in a team of four.
  - Deployed on AWS with Apache, Phusion Passenger and Mongrel as application server
  - Performed basic profiling and optimizations
- **Juniper Networks Inc.** Sunnyvale, CA  
*Software Engineer* *July 2006 - Present*
  - Developed software for the JUNOS operating system in the areas of - Virtual Private Networks (VPN), Application Layer Gateways (ALG), Firewall subsystem.
  - Implemented on various platforms; from high to low performance Juniper gateways - encompassed multi-chassis, multi-core, multi-threaded BSD-Unix environments with high-availability and fail-over capabilities.
  - Profiling & optimizing a suite of cryptographic algorithms.
- **Aspect Labs** Santa Clara, CA  
*Security Engineer* *Aug. 2005 - May 2006*
  - Implemented encryption library for 3G hand-held devices
  - Developed an in-house cryptographic suite that allowed us to certify security products.
  - Contributed towards certifying access-control-lists and privileges of the Solaris-10 OS, extensively making use of RSAs PKCS11 cryptographic library.
- **Suyoga Technologies** Bangalore, India  
*Web programmer* *Jan. 2004 - July 2004*

- Responsible for complete life-cycle of a Network Monitoring WebApp (browser+mobile) for network administration.
- The product was used by network administrators and allowed them to monitor network health via any WAP enabled mobile phone.

## Education

- **Northwestern Polytechnic University** Fremont, CA  
*MS Computer Science (GPA 3.97)* 2006-2007  
 – Relevant courses:
- **Rochester Institute of Technology** Rochester, NY  
*MS Computer Science (GPA 3.5)* 2004-2006  
 – Relevant courses: Advanced Java programming,
- **H.K.B.K. College of Engineering** Bangalore, India  
*BS Computer Science (GPA 3.5)* 2000-2004  
 – Relevant courses:

## Academic Projects

- **"Distributed Reflective Denial Of Service" attack** Fremont, CA  
*Academic Project* 2007  
 – Designed and Implemented main attacking engine that coordinated with other zombie machines to perform a simultaneous bandwidth attack.  
 – Elegant multi-threaded/load-balanced design for the DOS attack. Also, implemented various traffic patterns to by-pass naive Firewalls/IDS systems & back-report generation with statistical information.
- **"Routing & Security" for an Ad Hoc Network using Java** Rochester, NY  
*Academic Project* 2006  
 – Implemented the Dynamic Source Routing Algorithm and made significant enhancements to it.  
 – Coordinated team efforts to provide mobile node authentication with TESLA.
- **Watermarking of Relational Databases** Rochester, NY  
*Academic Project* 2005  
 – Designed and implemented in a team project using PERL, Java, OracleDB on Solaris.  
 – Implemented features such as verification of ownership, non-repudiation of database, and rollback.
- **A cross-platform Chat application using Java, C++** Rochester, NY  
*Academic Project* 2004  
 – Implemented features such as group chat, buddy chat, session management.  
 – Profiled/fine-tuned the chat engine to provide faster and robust concurrency among clients.

## Interests

**Computers:** Consumer/Enterprise webapps

**Other:** Volunteering, Reading, Swimming.