Aslam Tajwala

93 Bettencourt Way,
Milpitas, CA 95035.

408-316-1679
atajwala@gmail.com
http://www.aslamtajwala.com
https://www.github.com/atajwala

Skills

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

Web stack: Rails 3.X, JavaScript, JQuery, CSS3, HTML5

Databases: MySQL, NoSQL (MongoDB)

Dabbled with: Memcache, Postfix, Twitter and AirBnb APIs

Source control: Git, SVN, CVS

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

Scripting: Unix shell, Applescript, Tcl/Expect

Other: OpenSSL, HTTP, Flash, GDB, TCP/IP, Ethereal/TcpDump

Work Experience

- **TweetsAround (http://tweetsaround.com)**   Self contributer
  Web Programmer   *Nov. 2011 - Feb. 2012*
  - Developed a Rails application that demonstrates mashing of MongoDB, Twitter API and Google Maps API.
  - Using the Twitter Streaming API this web-app lists tweets near a geographical location specified by the user.
  - A separate task continuously populates tweets to a database thats geo-spatially indexed.
  - Uses: Rails 3.1, Mongoid gem. Database hosted via MongoHQ. Ajax UI with JQuery.

- **Mail2share (http://mail2share.com)**   Self contributer
  Web Programmer   *Jan. 2011 - Aug. 2011*
  - Developed a RESTful Rails webapp to test the need for a social inbox.
  - Wrote the backend, TDD for MVC modules, handcrafted most of the UI.
  - Uses Authlogic for authentication, Sphinx for search, Postfix for mailserver.
  - Deployed on AWS. Runs on - Apache, Phusion Passenger and Mongrel.

- **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), and firewalls.
  - Worked on an array of platforms; from high to low performance Juniper gateways - with a variety of architectures such as multi-chassis, multi-core, multi-threaded BSD-Unix environments with high-availability and fail-over capabilities.
  - Profiling and optimizing a suite of cryptographic algorithms.

- **Aspect Labs** Santa Clara, CA
  Security Engineer *Aug. 2005 - May 2006*
    - Implemented an encryption library for handheld 3G devices.
    - Developed an in-house cryptographic suite that allowed certification of various security products.
    - Contributed towards certifying access-control-lists and privileges for 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
  Master of Science - Computer Science (GPA 3.97) *2006-2007*
- **Rochester Institute of Technology** Rochester, NY
  Master of Science - Computer Science (GPA 3.5) *2004-2006*
- **H.K.B.K. College of Engineering** Bangalore, India
  Bachelor of Science - Computer Science (GPA 3.5) *2000-2004*

Academic Projects

- **"Distributed Reflective Denial Of Service" attack** Fremont, CA
  Academic Project *2007*
    - Implemented an attack engine that in coordination with other zombie hosts performed a simultaneous bandwidth attack.
    - Elegant multi-threaded/load-balanced design for the DOS attack. Implemented various traffic patterns to by-pass naive Firewalls/IDS systems and report back with statistical information.

- **"Routing and Security" for an Ad Hoc Network** Rochester, NY
  Academic Project *2006*
    - Implemented a 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** Rochester, NY
  Academic Project *2004*
    - Implemented features such as group chat, buddy chat, session management in Java, C++.
    - Profiled/fine-tuned the chat engine to provide faster and robust concurrency among clients.

Interests

Internet: consumer/enterprise webapps.

Other: Running, volunteering, reading, hiking, swimming.