

Benjamin J. Rossi

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Education

- **New York University, College of Arts and Science**, New York, NY 2006 - Present
 - **Major:** Computer Science and Mathematics, Honors
 - **GPA:** 3.62, Dean's List
- **Stuyvesant High School**, New York, NY 2002 - 2006
 - **GPA:** 94.8
- **SAT 1460** Math 790, Verbal 670 2005

Work Experience

- **Intern, Software Engineering** Summer 2008
Arc90 (www.arc90.com), New York, NY
Designed and built a scalable, high performance business rule evaluation engine. This engine is utilized by an insurance services provider to provide rapid responses to critical underwriting and risk evaluation processes. Developed in Java, technologies include a RESTful architecture using Restlet, a custom application framework developed for Hibernate, and a wrapper built around Groovy for storage and dynamic evaluation of business rules.
- **Intern, Software Engineering** Summer 2006 - Spring 2008
ShopWiki (www.shopwiki.com), New York, NY
Worked fulltime in an internet startup environment on innovative projects with top industry executives Kevin Ryan (former DoubleClick CEO) and Dwight Merriman (former DoubleClick CTO). Developed a novel social application for comparison shopping using the Facebook platform. Developed advanced dependency tracking system to facilitate integration of version control and regression testing. Worked on backend infrastructure for tracking ad clicks in Java and JSP. Integrated open source systems with proprietary tools: Wildfire jabber server, ApacheDS LDAP server, and GnuPlot for graphing and analytics. Deployed graphing and monitoring of CPU, temperature, disk I/O, and memory systems to dedicated servers.

Independent Projects

- **TCPDuP** (tcpdup.sourceforge.net) 2006
An open source networking utility for UNIX written in C
This utility was designed to duplicate the availability of a TCP service, with the ability to tunnel through HTTP proxies and throttle bandwidth to a specified rate. Features a modular architecture utilizing `dlopen`, asynchronous I/O, and sets advanced socket options to increase performance.
- **Waverly ATS** 2007 - Present
An automated/algebraic trading platform written in Java
In my spare time I develop software to perform automated day trading using real time intraday price data of securities. Research is directed towards micro trends and micro support and resistance levels throughout the day, using point and figure charting. Platform concept based on OpenQuant, a commercial auto trading platform.

Computer Skills

Languages: Programming (strongest first): C, Java, PHP, Perl, Python, C++, Objective-C, BASH shell, Ruby, JavaScript, SQL, x86 Assembly. Display: (X)HTML, CSS, XML, \LaTeX

APIs: Online: Facebook, PayPal. Offline: Cocoa Touch, FIX

Operating Systems: Linux, Open/Net/FreeBSD, Darwin/Mac OS X/iPhone OS, Windows 98/2000/XP/Vista

Applications: MySQL, Apache, SVN/CVS/git, x.org, \LaTeX , Microsoft Office

Networking: IPv4 and IPv6, TCP, VPNs (openvpn, ipsec)

Security: In depth understanding of C and Assembly and the stack model, ability to write and detect buffer overflow exploits, solid understanding of the practice and theory of securing computers on a network

Miscellaneous: General UNIX system administration, building and customizing kernels for both BSD and Linux, TCP/IP networking, building and deploying custom router configurations with pf and iptables, strong verbal and written communications skills, contributions to the open source community