

Benjamin J. Rossi

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Education

- **New York University, College of Arts and Science**, New York, NY Sep 2006 - May 2010
B.A., Computer Science and Mathematics
- **Stuyvesant High School**, New York, NY Sep 2002 - Jun 2006

Work Experience

- **Software Engineer** May 2009 - Present
Ronin Capital (www.ronin-capital.com), New York, NY
Strategy developer, and lead developer of a low latency DMA platform written in C++ for a distributed Linux environment.
- **Intern, Software Engineering** Jun 2008 - Aug 2008
Arc90 (www.arc90.com), New York, NY
Designed and built a scalable, high performance business rule evaluation engine to provide rapid risk evaluation for home insurance underwriters. Developed in Java and Groovy using the Restlet framework and Hibernate ORM.
- **Intern, Software Engineering** May 2006 - April 2008
ShopWiki (www.shopwiki.com), New York, NY
Worked among former DoubleClick gurus Kevin Ryan and Dwight Merrian developing infrastructure applications to support a growing internet startup company. Projects included tracking and plotting ad clicks in Java and JSP, applications to manage version control and regression testing, integrating open source software (Wildfire jabber server, ApacheDS LDAP server) with proprietary infrastructure, and tools to monitor and control dozens of hosts in a data center.

Independent Projects

- **Waverly ATS** Mar 2007 - May 2009
An automated trading framework written in Java
Developed an automated trading framework in Java from scratch, to research and trade automated strategies. Consists of more than 14,000 lines of code including an abstract exchange routing architecture and a FIX adapter based on QuickFix. Platform concept based on the commercial platform OpenQuant.
- **TCPDuP** (tcpdup.sourceforge.net) Mar 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.

Computer Skills

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

APIs and Protocols: Facebook, PayPal, Cocoa Touch, FIX

Operating Systems: Linux, Open/Net/FreeBSD, Darwin/Mac OS X/iPhone OS, Windows

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