

BENJAMIN A. ROSE

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- Education** **Stevens Institute of Technology**, Hoboken NJ: Bachelor of Science in Computer Science.
Graduated in December of 2010.
- Certifications** RHCSA, RHCE.
- Related Skills** **Systems & Daemons**
Linux (most distros), Sun Solaris, Windows (all versions), general security and administration, MySQL, Beowulf clusters, High Availability (heartbeat) clusters, failover systems, OpenMPI, Cisco IOS, FreeBSD, NetBSD, Kerberos, LDAP, NIS, Linux tc, kickstart, apache, lighttpd, postfix, AccessMatrix, puppet, nagios, libvirt, KVM, IBM z/OS & x3270 terminals, Android & ARM devices, Enterprise VMWare, CAS, Torque, Maui, mock.
- Security**
Nmap, iptables, SELinux, nessus, metasploit, PGP/GNUpg, tripwire, system vulnerability assessment, data forensics, 802.11a/b/g/n auditing, Bluetooth auditing, kismet, libpcap, wireshark, TCP/IP packets, Ethernet-level packet forging, IPv4, IPv6, ARP, DNS, SQL Injection, XSS, Snort, Sguil, PADS, SanCP, [D][R]DoS mitigation, CheckPoint firewalls.
- Software Development**
C, C++, Python, Java, PHP, JavaScript, TCL, CSS, Perl, MySQL, Redcode, Intel 8086 assembly, Motorola 68000 assembly, shell scripting (bash), regular expressions, gdb, strace, hex editors, packet generation (IPv4 and IPv6), kernel-level modules and patches, cross-compiling, RPMs.
- Relevant Work Experience** **Princeton University Department of Computer Science**
Network & Systems Administrator, November 2011 – Current, Princeton NJ
- Rebuilt infrastructure from ground up with puppet and RPM-based Linux.
 - Replaced existing Rocks-based cluster with custom torque/maui cluster build.
 - Responsible for several new CS services: CAS, svn, git, mock, puppet, monitoring.
 - Interacted with clients regularly via RT ticketing system and in person.
- Institute for Advanced Study**
Network Security Intern, Summer 2009 – December 2010, Princeton NJ
Junior Network/Security Administrator, January 2011 – October 2011 Princeton NJ
- Deployed a state-of-the-art sguil/snort network intrusion detection system.
 - Set up fully-redundant nagios servers for network monitoring, solutions published.
 - Deployed versioning configuration management system (puppet + subversion).
 - Performed penetration testing.
 - Worked with faculty/staff to educate on the importance of good security practices.
- Stevens Institute of Technology – Scientific and Research Computing IT**
Assistant Systems Engineer, Fall 2007 – Spring 2009, Hoboken NJ
- Designed, built, and supported a Linux infrastructure at Stevens.
 - Planned and implemented a hybrid grid/high-availability cluster.
 - Developed a new Linux distribution, code-named Driftwood, part of project Xenial.
 - Performed basic administration tasks, user management, system permissions, machine deployment, and hardware/software troubleshooting.
- Awards & Organizations** ● Boy Scouts of America – Eagle Scout.
● LOPSA Professional IT Community Conference – Taught class on puppet.
● Future Business Leaders of America – Cybersecurity event - 1st in NJ.
● American Legion Jersey Boys' State – Technology staff, volunteer.
● PUIAS Linux Distribution – ARM branch maintainer.
- References** Available upon request.