

Russell E. Harmon

CONTACT INFORMATION	Rochester Institute of Technology PO Box 92423 Rochester, NY 14692	(585) 210-3330 http://rus.har.mn russ@eatnumber1.com
OBJECTIVE	I am not currently looking for a job. If you are a recruiter and decide to email me, due to the volume of recruitment email I receive understand that I will not be able to respond to every recruitment email I receive.	
SUMMARY	I love to tinker. I enjoy spending my time working on personal projects. Some of the notable projects I have worked on include the Linux kernel and the Gentoo and Debian Linux distributions. I have become very good at picking up new ideas quickly, and expanding what I already know with a direction and my own research.	
EXPERIENCE	Google - Mountain View, CA Chrome OS Kernel Engineering Intern	6/5/2012 - 8/2012 http://google.com/
	Worked on the Kernel team for the Chromebook. My work centered around the creation of a unit test which analyzes the kernel-to-kernel latency of input events, and the associated frameworks to make this test possible. This work involved adding trace events into the Linux kernel, X input drivers, and the Chromium browser; then building tools to analyze traces generated by these events.	
	Microsoft - Boston, MA Software Development Engineering Intern	6/6/2011 - 8/26/2011 http://micorosft.com/
	Worked on the "Sustained Engineering" team on the Application Virtualization product. The sustained engineering team maintains the released version of App-V. Written in <i>C++</i> , I worked on a migration feature for the App-V and Office products.	
	Apple Inc - Cupertino, CA Engineering Intern	6/1/2010 - 11/16/2010 http://apple.com/
	Worked on the "Platform Kernel" team in the Core OS department at Apple. The majority of my work entailed work on <i>libC</i> , and on <i>XNU</i> (the Mac OS X kernel). My two major projects were (a) migrating code out of the kernel into userspace to take advantage of <i>ASLR</i> and (b) creation of an automated testing suite to test Mac OS X's power management on Intel processors. The <i>ASLR</i> work involved a great deal of collaboration between several different teams within Apple.	
	Gentoo Linux - Gentoo Foundation Package Maintainer	August 2007 - August 2010 http://www.gentoo.org/
	Wrote and maintained ebuilds for the PCSX2 Play Station 2 emulator, and related plugins. Work on this included significant bash scripting, and understanding and use of autotools and various debugging tools.	
	SafeNet Inc - Belcamp, MD Engineering Intern	June 2008 - June 2010 http://www.safenet-inc.com/
	Worked on the SafeNet Management Console (SMC) on a team of 7. SMC is a web application built on <i>Java</i> , <i>JBoss</i> , <i>Hibernate</i> and <i>JSF</i> which manages high speed network encryption devices that SafeNet manufactures, including top-secret devices. Responsibilities included (a) creating requirements documents, (b) implementing requirements (IPv6, file synchronization), (c) testing and (d) fixing defects. Some of the specific tasks that were assigned while working there included transparent file synchronization between machines, implementing IPv6 support and implementing support for multiple SMC servers managing the same device (distributed devices).	
	New York City Department of Education - Bronx, NY IT Specialist	September 2002 - June 2006 http://schools.nyc.gov/
	Worked at Lehman High School. The work there included (a) setup and maintain the computer systems, (b) repair and maintain the network, (c) diagnose and eliminate viruses and malware on the school's network and computer systems and (d) audit the network for malicious activity.	

EDUCATION

Rochester Institute of Technology - Rochester, NY

September 2006 - Present

- Major: B.S./M.S. Computer Science
- M.S. GPA: 3.0
- Minor: Music, Concentration: Computer Engineering
- Course work completed, thesis ongoing. Expected completion, November 2013

Throughout my education, I've tried to balance my desire to push my knowledge into broader subjects than what was currently being taught to me in classes, and the pursuit of good grades. I eventually came to the decision that while completing my degree was my top priority, beyond that I would gain more benefit by pursuing extracurricular technological education. In the pursuit of this, I joined the Computer Science House, and taught myself a great deal about subjects ranging from networking and systems administration to web design.

I've additionally pursued breadth in my formal education with my concentration in computer engineering and the classes I took within my department, including robotics, systems programming, computer graphics and programming language theory.

At home, I run an enterprise class network, with an IPSec VPN, internal DNS and DHCP, QOS, Kerberos and LDAP, all configured by hand without the use of pre-packaged configuration tools such as IPCop or OpenWRT. I approach systems administration avoiding the use of tools to make things easier because I wish to learn how all of these systems work, and I feel this is the best way to do this.

I'd also recommend you visit my GitHub page <http://goo.gl/8VTUk> which showcases work in various states of completion including:

- a significant fork of the classic 1980s game NetHack <http://goo.gl/QgEPj>
- a SQLite regular expression plugin <http://goo.gl/FZX68>
- a SOCKS proxying library <http://goo.gl/7tMgo>
- a NetHack inspired bullet hell game written for the PCJr <http://goo.gl/5FYII>

TECHNICAL SKILLS &
CERTIFICATIONS

Fluent Languages (a) C (b) ZSH (c) Java (d) C++ (e) Javascript (f) Python

Operating Systems (a) Linux [programming & administration] (b) Mac OS X (c) Windows

Server Administration (a) LDAP (b) Kerberos (c) BIND (d) DHCPD (e) Radvd (f) Apache

Networking (a) Cisco Academy, with honors (terms 1 and 2) (b) IPv6 (c) DNS (d) DHCP (e) IPSec

Tools (a) Make (b) Autotools (c) CMake (d) LLVM (e) Regex (f) \LaTeX

Certifications (a) Cisco Academy, with honors (terms 1 and 2) (b) A+

SPECIAL
ACCOMPLISHMENTS

Joined CSH (Computer Science House). While there, I was elected by my peers first as a network administrator, then as the director of all the network administrators. <http://www.csh.rit.edu/>

At age 8, built my first computer. At age 10, worked my first job at City Island Computer Services. At age 12, attended my first programming class at Lehman College.