

Luke Shumaker

Seeking full-time
employment

Education

School: Purdue University
Degree: Bachelor of Science in Computer Science
Concentration in Systems Programming & Software Engineering
Graduated: May 2016
GPA: 3.05 total, 3.46 computer science (4 point scale)

Contact

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Residence

9642 Winsome Ct,
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Technical Skills

Languages (experienced): Bash, C, GNU Make, Go, Java, Perl, Ruby
Languages: C++, CoffeeScript, JavaScript, PHP, Python, SQL
Markup: (X)HTML, CSS 2.1/3, SVG, TeX
Other Technologies: Django, GWT, Rails, Nagios
Operating Systems: CentOS, Debian, Fedora, Parabola/Arch Linux
Applications/Tools: Emacs, Bash, Git, Mercurial, Subversion
Certifications (CompTIA): A+ (IT tech.), Network+, Linux+, Security+
Certifications (Linux Professionals Institute): LPIC-1 (expired)
Certifications (Cisco): CCENT (expired)

Work Experience

Qualcomm (intern, 2015)

Linux/ftrace, Perl, Make, proprietary tech.

I worked at Qualcomm Innovation Center (QuIC) on the Linux Power team. I developed an automated log analyzer that takes about 20 seconds to do what used to take someone a month. This involved working with engineers to understand both the Linux kernel power management, and the chipset's behavior.

Comcast NETO (intern, 2013)

Perl, C, Nagios, RHEL, some Ruby on Rails

I worked Comcast National Engineering & Technical Operations (NETO) on a tools and automation team. I did application maintenance, light development (mostly Perl), and RHEL administration. I worked with business critical programs, such as one that was responsible for reporting performance data from the legacy Aloha cable network to the global performance database. I solved problems such as a thread safety problem in the Nagios monitoring system.

Precise Path Robotics (intern, 2011-12)

C, C++, OpenGL, Ruby on Rails, GWT, some CentOS administration.

I worked at Precise Path Robotics during the 2011-2012 school year and full time during the summer of 2012. While there I wrote a Ruby on Rails web application that managed and queried an SQL database of logs from the robots, added features to and optimized a graphical log viewer written in C++, and worked in a team to quickly develop an application with Google Web Toolkit.

I also dealt with problems on CentOS and Fedora servers.

Other Experience

Free & Open Source (2011-now)

C, Bash, Go, PAM, NSS, Linux, Containers

I am involved in FOSS. I have stumbled my way in to being one of the core developers of the Parabola GNU/Linux-libre operating system (one of the FSF-endorsed distributions); these days my role is primarily in developer tools and infrastructure, though I am still occasionally a packager. When a bug is encountered, I work with the upstream developers to get it fixed; leading to my contributions in GNU libc, QEMU, PAM, systemd-nspawn, journald, Ark, and other software. And of course, I'm always on IRC providing support.

FIRST Robotics (2009-12, 15-17)

Java, OpenCV, VxWorks

I was a programmer on FIRST Robotics Competition (FRC) Team 1024 for four years (2009-2012), two of which I was the lead programmer. Beyond programming the competition robot, I debugged problems in third party code, such as memory problems in Java code that used JNI to speak to native libraries.

For the last three years (2015-2017) I have returned to FRC as a mentor to Team 4272.

Other Information

I am an Eagle Scout and Fire Crafter.