

# 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

(317) 654-6082  
[lukeshu@lukeshu.com](mailto:lukeshu@lukeshu.com)  
<https://lukeshu.com/>  
lukeshu on Freenode

## Residence

9642 Winsome Ct,  
Indianapolis, IN 46256

## 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  
**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 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 PAM, systemd-nsnspawn, 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.