

William Frederick Tracy

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I am currently seeking a software development position.

Skills

- Windows
- OS X
- Linux/Unix
- Android
- C/C++
- Qt
- Java
- Python/Django
- Tcl/Expect
- Scheme/Lisp/Haskell
- x86 Assembly
- HTML/XHTML/CSS
- JavaScript

I also hold a TS clearance.

Experience

Site Reliability Engineer, Yahoo (2015) Monitored Flickr for site issues and performed corrective action. Also built automation for managing runbooks.

Software Engineer II, Raytheon AST (2014--2015) Participated in maintaining a large C++/Qt application with a client-server architecture in a Linux environment. I refactored and optimized several sections of the codebase.

Application Engineer III, Akorbi (2013) Engineering contractor on-site at Google headquarters. I maintained an internal Python/Django application, and developed a variety of tools for generating automated reports for management directly from production data, in a Linux environment.

Software Engineer, PayPal (2012) I provided support to operations when they encountered bugs in the Risk codebase. I performed root-cause analysis on those bugs and provided my results to the development teams to support development of fixes. I also provided live support to operations while they pushed new software revisions. Additionally, I maintained a Linux server cluster that ran an internal-facing dashboard system, and wrote Python tools to support that maintenance.

Software Engineer I, Cisco Systems (2011) I supported the senior developers on the NX-OS team, allowing them to offload some debugging tasks. I also provided bug fixes and maintained a database of upgrade compatibility between revisions. NX-OS is a Linux-based platform.

Intern, Cisco Systems (2008) Worked as a Software Development Intern. Developed a Linux-powered software test system for internal use at Cisco Systems. This consisted of a custom language interpreter written in TCL and Expect, and a web-based front end for running tests written in Java and JSPs.

Intern, Alpha Infinity (2007--2008) Did a brief internship and implemented a library of mathematical functions in Common Lisp for a "stealth" startup company.

Lab Assistant, Santa Rosa Junior College (Winter 2003--2004) Worked as assistant in Math lab. Helped JC students using computers and software including Maple, Word, Excel, Photoshop, and Macintosh OS X.

Education

California Polytechnic State University: Graduated Spring 2009 with a Bachelor's of Science in Software Engineering and a GPA of 3.29.

UC Berkeley: Summer session of 2004, completed Structure and Interpretation of Computer Programs using Lisp.

Santa Rosa Junior College: Graduated with an A.S. degree in June 2006.

Open Source Projects and Extracurricular Activities

Quaternions for Android: Developed a library for handling quaternion rotations targeted at Android games. <https://github.com/wtracy/quaternions>

HaBlog: This is my experimental static blog generator written in Haskell. The project lives at <https://github.com/wtracy/hablog> and an example blog lives at <http://www.wtracy.com/blog>.

Linux User Groups: Served as vice president and presenter for the Cal Poly Linux User Group (CPLUG). Acted as panel speaker for the North Bay Linux User Group (NBLUG).

CAS and Symja: Developed a Java-based computer algebra system simply called CAS, [described here](#). It was later merged into the Symja project, available at <http://symja.googlecode.com/>.

Project Looking Glass: Briefly contributed to Sun Microsystem's Project Looking Glass, an experimental three-dimensional desktop environment. Among other things, I rewrote most of their developer documentation. http://en.wikipedia.org/wiki/Project_Looking_Glass

SkinLF and SwingFX: Contributed to several libraries that extend the Swing toolkit. SkinLF provides facilities for making themeable Java applications: <http://www.l2fprod.com/skinlf/>. SwingFX is a now-defunct collection of non-standard Swing widgets.