

William Frederick Tracy

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Skills

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

Experience

Owner, Tech Tracy (2016-now) Provided on-site technical support to private individuals and small businesses in and around Sonoma County.

Site Reliability Engineer, TalentBurst (2015) Worked onsite monitoring 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 (2009-2011) 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

Sortraits: Implemented a selection of sorting algorithms in Haskell and generated visualizations of their operation. <https://wtracy.gitlab.io/sortraits/>

Ohm Tracker: Developed a dashboard that pulls in and presents live cryptocurrency data. <http://ohmtracker.com/>

Silicon Valley Aquarium Society: I served as president of SVAS for a year and a half. I managed the organization’s bank account, verified receipts during fundraising auctions, maintained the club’s website and supervised the scheduling of upcoming speakers.

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).