NAME

Kyle Isom - software security engineer

SYNOPSIS

Personal Site: http://www.kyleisom.net

Email: kyle@kyleisom.net

SKILLS

- Development: C, Python, Clojure, Objective-C, UNIX / POSIX programming, network programming, security engineering
- Software Engineering: GNU Autotools suite, LaTeX, Texinfo, mandoc
- Development Tools: Valgrind, lint, rats, vim, emacs
- Development Cycle: I know how to do the other engineering involved with software projects, such as documentation, build system setup, and developing useful unit tests.
- Security: I have a strong background in computer security, particularly the field of secure
 programming. Some of my security skills include penetration testing, reverse engineering, and
 proactive network defense.

WORK EXPERIENCE

Echostar Technologies, L.L.C. (Englewood, CO / Software Security Engineer)

- July 2010 Present
- Conduct code reviews and audits in C and C++.
- Patch Linux kernel for embedded devices to address site-specific security requirements.
- Write Python code to generate encrypted software updates for Linux-based set top boxes.

SELECTED PROJECTS AND PUBLICATIONS

Crypto Intro (Python)

- An introduction to Cryptography with PyCrypto
- Published June 2011
- Introduces cryptography to developers who may not have a solid understanding of not only what cryptography is, but also when to use it.
- Uses Python to clearly introduce how to properly integrate cryptography into projects.

Woofs (Python)

- Woofs GitHub page.: http://www.github.com/kisom/woofs/
- Share files easily from the commandline.
- Published July 2011
- Designed to quickly share a file over HTTPS.
- Addresses the fact that similar programs were not using TLS/SSL.

srvwd (C)

- srvwd homepage.: http://www.tyrfingr.is/projects/srvwd/
- Serve Working Directory
- Minimal web server written in ANSI C.
- Serves the current working directory
- Forking webserver that can be chrooted for security.
- Designed to specifically facilitate rapid testing of statically-generated sites.

FlexArgs (Objective-C)

- Github page.: https://github.com/kisom/flexargs
- Flexible parse command line options.

SEE ALSO

Github profile.: https://github.com/kisom/
Bitbucket profile.: https://bitbucket.org/kisom/
Unix and C coding portfolio.: https://www.tyrfingr.is