# KYLE ISOM

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## LINKS

- Homepage - http://www.kyleisom.net/
- Github - https://github.com/kisom/
- Projects - https://tyrfingr.is/

## EXPERIENCE

**Security Engineer**          Echostar Technologies          Summer 2010-Present
                               Englewood, CO

Conduct code audits, primarily in C; implement security systems in Linux kernel; write Python scripts to support encrypted software updates for Linux-based set top boxes.

## SKILLS

Development: C, Go, Python, UNIX / POSIX programming, network programming, security engineering.

Software Engineering: GNU autotools suite, LATEX, Texinfo, mandoc and troff.

Development Tools: valgrind, lint, rats, vim, emacs.

Development Cycle: Build system setup, documentation, unit testing.

Security: secure programming, reverse engineering, penetration testing.

## SELECTED PROJECTS

*A Working Introduction to Cryptgraphy* (Python)

- Published June, 2011.
- Homepage: http://www.kyleisom.net/blog/2011/06/17/intro-to-crypto/
- Introduces cryptography to developers who may not have a solid understanding of not only cryptography, but also when to use it and how to safely use it to improve the security of systems.
- Uses Python to clearly introduce how to properly integrate cryptography into projects.

srvwd (C and Go)

- Homepage: http://www.tyrfingr.is/projects/srvwd/
- Simple file server that serves files in the current working directory.
- C version is a minimal web server written in C.
- Go version includes a basic file server and a caching version.
- Designed to facilitate rapid testing of statically-generated sites.

libbase64 (C)

- OpenBSD base64 functions extracted to an external static library.
- Includes unit tests to validate code.
- Homepage: http://tyrfingr.is/projects/base64/

pypcapfile (Python)

- Homepage: https://github.com/kisom/pypcapfile
- Pure Python library for handling libpcap savefiles.

filecache.go

- Homepage: http://gokyle.github.com/filecache/
- A simple filecache implementation in Go.

webshell (Go)

- Homepage: http://www.go-webshell.org
- Web framework written in Go.