

# KYLE ISOM

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## LINKS

- Homepage - <http://www.kyleisom.net/>
- Github - <https://github.com/kisom/>
- Go Projects - <http://www.gokyle.org>

## EXPERIENCE

### Security Engineer

Echostar Technologies  
Englewood, CO

Summer 2010-Present

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, Unix man pages.

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

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

Security: secure programming, reverse engineering, penetration testing.

Deployment: basic familiarity with Puppet and writing Upstart scripts.

## SELECTED PROJECTS

### *Practical Cryptography with Go (Go)*

- Book is being published on Leanpub as it's written.
- Homepage: <https://www.leanpub.com/gocrypto>
- Example code: <https://github.com/kisom/gocrypto>
- 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.

### srvwd (C and Go)

- Homepage: <http://www.tyrfingr.is/projects/srvwd/>
- Simple file server that serves files in the current working directory.
- 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.