

## Skills

- **Development:** C, Python, Clojure, Objective-C, UNIX / POSIX programming, applied cryptography
- **Software Engineering:** GNU Autotools suite, LaTeX, Texinfo,
- **Development Tools:** Valgrind, lint, rats, vim, emacs
- I know how to do the other engineering involved with software projects, such as documentation, build system setup, and developing useful unit tests.
- 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 Open Source Projects and Publications ([kisom.github.com/](http://kisom.github.com/))

- **Crypto Intro** Python  
*An introduction to Cryptography with PyCrypto* *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.
  - Includes source code examples with tests.
- **Libdaemon** C  
*A lightweight POSIX daemon library.* *2011*
  - Written to satisfy the need for a common API to daemonise programs written in C.
  - Satisfies requirement that programs using the library compile and run under OpenBSD, OS X, and Linux.
- **Woofs** Python  
*Share files easily from the commandline.* *2011*
  - Designed to quickly share a file over HTTPS.
  - Addresses the fact that similar programs were not using TLS/SSL.

## Current Classes

- **Natural Language Processing** Spring 2012  
*Stanford Online*
- **Introduction to Machine Learning** Spring 2012  
*Stanford Online*
- **Programming a Robotic Car** Spring 2012  
*Udacity*