

David Ko

vsxx.github.io

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Education

- **University of Texas** Austin, TX
BS, Computer Science *August 2009 - August 2015*
 - Relevant courses: Principles of Computer Systems (OS), Information Assurance and Security, Computer Security, Cryptography, Data Visualization and Warehousing.

Work Experience

- **M&D Distributors** Humble, TX
Internship for IT Security *June 2014 - August 2014*
 - Maintained network and computer security in IT.
 - Used various resources and software such as Spiceworks, WatchGuard, and WireShark.

School Projects

- **PintOS** Austin, TX
University of Texas GDC Computer Lab *August 2014 - December 2014*
 - Semester long project in which we implement parts of the PintOS operating system.
 - Implemented: Basic Shell, Threads, Virtual Memory, User Programs, File System.
 - PintOS coursework was done in groups of 4 throughout semester.
 - Source code, information, and git logs can be found in my portfolio.
- **AES Implementation** Austin, TX
University of Texas GDC Computer Lab *June 2015 - July 2015*
 - Implemented AES-256 in Java following the AES Standard in ECB mode.
 - Implemented each part of the AES: subBytes, shiftRows, mixColumns, and addRoundkey.
 - Learn full understanding of Rijndael's AES Standard.
- **Other Projects**
UBC and at home *1999-2000*
 - Designed and debugged a digital voltmeter using a Motorola 68000 processor.
 - Added features to the digital voltmeter including scrolling text, and a warning buzzer, which won 3rd place in the IEEE Voltmeter Competition.
 - Constructed and debugged a digital clock on a PCB for PHYS 159.
 - Built an AM short-wave radio at home, on a 2" × 2.5" piece of breadboard.

Awards

Skills

Languages: C/C++, Java, L^AT_EX, Python, x86 Assembly, Javascript, Python, PHP, Ruby, Haskell, Yacc.

Operating Systems: Linux (Ubuntu, Kali, MINT, Arch), MacOS X, Windows XP/7/8.

Applications & Tools: VIM (preferred editor), Git Source Control, Eclipse, L^AT_EX, Google Test, Valgrind, DOxygen (Documentation), Travis CI (Continuous Integration), ZShell, Kali Linux Tools and associated software (i.e. Metasploit).

Miscellaneous: Competent with Kali Linux (academic/ethical hacking), advanced and experienced with using terminal, knowledge of advanced cryptography (applied and theoretical).

Interests

Academic: Solid state devices, nanotechnology, photonics, microcontrollers, RF/wireless

Sports: Playing hockey and swimming

Computers: Currently maintain two official Debian Linux packages, Mozilla beta tester, enjoy using and learning Linux systems, Building electronics projects at home, and writing JAVA software

Musical: Playing guitar and piano

Membership: Student member of IEEE since 1998, Materials Research Society member since 2002

Other: Reading novels