

David Ko
davidpeterko.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, Modern Web Applications (Java), and Generic Programming (C++ / STL).

Work Experience

- **M&D Distributors** Humble, TX
Paid 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 Lab *August 2014 - December 2014*
 - Semester long team project in which we implement parts of the PintOS operating system (C based).
 - Implemented: Basic Shell, Threads, Virtual Memory, User Programs, File System.
- **AES Implementation** Austin, TX
University of Texas GDC 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.

Skills

Languages: Java, C/C++, L^AT_EX, x86 Assembly, Javascript, Python, Haskell, L/Yacc (Parsing), SQL, R, Shell Scripting, HTML.

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

Applications & Tools: VIM (preferred), Linux Command Line, Git Source Control, Eclipse, L^AT_EX, Google Test, Valgrind, Doxygen (Documentation), Travis CI (Continuous Integration), MySQL/Oracle SQL Developer and Data Modeler, RStudio, Tableau, XCode, JDBC and REST.

Miscellaneous: Kali Linux (academic/ethical hacking), Applied/Theoretical Cryptography, Git Issue Tracking, Unit and Functional Testing, 12 years of Mandarin.

In Progress: Currently learning: PHP, Ruby, Perl, Swift and iOS App Development.