

WEI PENG

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Homepage: <http://voidstar.info>

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technical skills

- Clojure/Java over JVM
- operating systems internals: Linux and Windows
- Android framework internals
- over 8 years daily Linux command-line scripting/administration

work experience

- Intel Corporation; Software Engineer; Jun 2015 to Now.

education

- Purdue University, U.S.A.; PhD in Computer Science; May 2015
 - ([type]: [as first author]/[total]) conference: 7/11; journal: 2/3; book chapter: 1/1
 - publication list available at <http://voidstar.info/research.html>
- Purdue University, U.S.A.; MS in Computer Science; August 2011
- Zhejiang University, China; BS in Mathematics; June, 2007

technical experience

- TBNL: fully programmable Android root shell as Clojure REPL
 - tagline: “Rule your Android, as the Root, fully programmable, in Clojure”
 - full access to Android’s *internal API* in Clojure REPL on rooted Android 4.3/SDK18+ devices/emulators
 - see it in action with video demos: <http://goo.gl/aD9qNf>
 - Google Play Store download: <http://goo.gl/5HY9ek>
 - source code: <https://github.com/pw4ever/tbnl>
 - (unsolicited) user feedback: <http://goo.gl/72ReHB>
- Web of APKs: query-able Android PacKages (APKs)
 - Clojure implementation of a query-able graphical model of APKs
 - static analysis that resolves (self-contained) implicit control flows (e.g., Java reflections) and dynamic values for obfuscation-resilience
 - source code: <https://github.com/pw4ever/web-of-apks>
- virtmon: para-virtualized virtual machine introspection
 - funded by Northrop Grumman Cybersecurity Research Consortium (NGCRC; <http://goo.gl/xHNStu>)
 - utilize hardware-assisted virtualization capabilities to facilitate & secure virtual machine introspection
 - enable loading guest kernel modules securely through host interface
 - prototype as Linux loadable kernel modules on Linux KVM hypervisor
 - tested with nested virtualization on Arch Linux host & guest
- Common Lisp port-based server manager
 - manage port-based Common Lisp servers (e.g., Swank and Hunchentoot) through a unified interface
 - source code: <http://goo.gl/u16AIv>; enlisted in QuickLisp projects <http://goo.gl/16beuu>
- hobby projects
 - awesome Window Manager configuration: <https://github.com/pw4ever/awesome-wm-config>
- miscellaneous technical writings: <http://voidstar.info/hacks.html>