

Aaron Lam

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Education

- Graduating 2016 **Honours B.Sc., Computer Science**, University of Toronto.
3.41/4.00 CGPA
- Courses Operating Systems, Microprocessor Software, Software Tools and Systems Programming, Software Design, Data Structures & Analysis, Computer Organization

Skills

- Languages** C/C++, Python, Ruby, Java
Systems Linux/Unix
Tools GDB, Git, SVN

Professional Experiences

- May 2015 – **Software Engineer Intern**, Arista Networks, Inc., Vancouver, BC.
Aug 2015
 - Designed and implemented a Linux kernel module that provides instrumentation for statistics regarding received packet latency throughout the Linux kernel network stack.
 - Backport patches from Linux kernel upstream.
- May 2014 – **Firmware Engineering Intern**, Tesla Motors, Inc, Palo Alto, CA.
Aug 2014
 - Developed Ruby scripts for the automation of various Infotainment features of the Tesla Model S centre display and assist in the verification of the localisation of the user interface.
 - Enhanced the Infotainment automation framework with improvements to the verification of Internet browser activity and Bluetooth connectivity.
 - Analysed and integrated open source static analysis tools into development processes.
- May 2013 – **Software Developer Intern**, IBM Canada Ltd, Markham, ON.
Jan 2014
 - Expanded the IPAS Automated Testing Framework using Python and Bash.
 - Implemented Python unit test scripts to increase coverage of the automated test suite in the framework.

Activities

- Jan 2015 – **Teaching Assistant**, University of Toronto.
Apr 2015
 - Assist students with understanding introductory programming concepts.
 - Graded and provided feedback on assignments and examinations.

Projects

- Sept 2014 – **Mininet Virtual Machine Management**, Supervised by Professor Y. Ganjali,
Jan 2015 Computer Systems and Network Group, University of Toronto.
 - Implemented a software prototype and API for migrating hosts between machines during run-time in a distributed MiniNet network emulation using MaxiNet.
 - Developed with Python using POX controller web service APIs.
- Nov 2014 – **Arduino NFC Smart Lock**, University of Toronto.
Jan 2015
 - Designed, built and programmed a NFC activated door lock system based on the Arduino microcontroller with a complementary Android application.
 - Developed with C++ using Arduino microcontroller libraries.