

Fahad Almusharraf

Engineer / Photographer

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EDUCATION

University of Toronto, **M.A.Sc. in Computer Engineering**. Sept 2016-present.

University of Waterloo, **B.A.Sc. in Honours Computer Engineering/Management Science Option Co-operative Program With Distinction**. Graduated in June 2015.

PROJECTS

SSLCAV, Enforcing OpenSSL Certificate Authentication for non-browser programs

PixelFinder, Ruby on Rails web application for images search based on EXIF data

Mosa, Image Processing library to stitch a series of similar images to create a mosaic

Hackberry, Hardware bluetooth module that allows any pen/pencil to record digital notes

SKILLS

Web Development: HTML, CSS, JavaScript, Ruby On Rails, Sinatra, and JSP

Programming Languages: C/C++, Java, Ruby, Python, Elixir/Erlang, and Matlab

Other: SQL, Git, and SVN

EXPERIENCE

Teaching Assistant, University of Toronto; Toronto, ON, Jan 2017 - Apr 2017

Teaching assistant for the course APS105.

Teaching Assistant, King Saud University; Riyadh, Saudi Arabia, May 2016 - present

Faculty member in the Computer Engineering Department at the College of Computer and Information Sciences.

Security Software Engineer, Lookout Inc; Toronto, ON, Jun 2015 - Nov 2015

Developing and testing enterprise detection and analysis Java/JRuby tools for iOS and Android applications.

- iOS/Android malware cloud detection using Apache Storm and Apache Kafka
- Static analysis of Android applications

Security Software Intern, Lookout Inc; San Francisco, CA - Aug 2014 - Dec 2014

Developed internal security tools for analyzing Android applications using Java/JRuby.

- Web development and testing using Oraculum.js and Ruby on Rails
- Static analysis of Android applications

Research Assistant, University of Waterloo; Waterloo, ON, May 2014 - Aug 2014

Research assistance working on a car study case in the Real-time Embedded Systems Lab.

- Build controllers for a wireless model car using QNX on BeagleBone
- Matlab/Simulink C code generation

Software Engineering Intern, Blackberry; Waterloo, ON, Sep 2013 - Dec 2013

Developed a Virtual Filesystem (VFS) on Linux and OS X using FUSE (Filesystem in userspace).

- Develop a VFS in C for SVN repositories
- Prototype a VFS in python for OpenStack Swift cloud storage

Cloud Services Engineering Intern, Apple Inc; Cupertino, CA - Aug 2012 - Apr 2013

Developed internal tools for localization projects and Apple Maps.

- Develop and deploy a web application using Backbone.js on Ruby On Rails
- Develop web-based Data Visualization using D3.js