

Fahad Almusharraf

Engineer / Photographer

falmusha@gmail.com
github.com/ifahad7
linkedin.com/falmusharraf
500px.com/ifahad7

EDUCATION

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

PROJECTS

PixelFinder, Ruby on Rails web application for comparing EXIF data of Flickr.com and 500px.com images

Hackberry, Hardware bluetooth module that allows any pen/pencil to record digital notes using OpenCV image processing

SSLCAV, Enforcing OpenSSL Certificate Authentication for non-browser programs that dynamically link OpenSSL

BitcoinTrading, Bitcon trading on Android for the Canadian Virtual Exchange market

SKILLS

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

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

Hardware: ARDUINO, BeagleBone, STM32, and Atmel AVR

Other: SQL, Git, and SVN

EXPERIENCE

Lookout Inc

Jun - current
Toronto, ON

Security Software Engineer

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
- Functional and integration testing of Storm topologies
- Build and automation using Gradle/JRuby-Gradle

Lookout Inc

Aug - Dec 2014
San Francisco, CA

Software Engineering Intern

Developed internal security tools for analyzing Android applications.

- Front-end web development and testing using Oraculum.js and Jasmine.js/Sinon.js
- Back-end web development and testing using Ruby on Rails and RSpec
- Deploy web assets to Amazon S3 and CloudFront
- Static analysis of Android applications

University of Waterloo

May - Aug 2014
Waterloo, ON

Undergraduate Research Assistance

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

Blackberry

Sep - Dec 2014
Waterloo, ON

Software Engineering Intern

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

Apple Inc

Aug 2012 - Apr 2013
Cupertino, CA

Cloud Services Engineering Intern

Developed internal tools for localization projects and Apple Maps. Worked on redesigning and enhancing existing internal tools to automate the localization process.

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