

Education

- 2006–2010 **Master in Computer Science**, *University of Houston*, Houston, 3.4.
2002–2006 **Bachelor in Electronics Engineering**, *Tsinghua University*, Beijing, 3.5.

Master thesis

- title *Multi Channel Multi Radio MAC For Wireless Mesh Network*
supervisors Dr. Rong Zheng
description A wireless mesh network in which each node is able to dynamically switch channels on two radio interfaces

Experience

Vocational

- 2014–present **Senior Android Developer**, *AirWatch By VMWare*, Atlanta, GA.
Android Development Team
- Mobile VPN
 - Design and implement cutting-edge VPN solutions for Mobile devices
 - Mobile Device Management solution development
 - Appium Automated Mobile Testing
 - Ruby scripting that is succinct and fun
 - A testing framework that is based on Selenium web automation framework
 - Cucumber test cases
 - Openssl FIPS Module
 - Selenium Automated Web Testing
 - Traffic Testing Server using Google App Engine, Django, MongoDB
 - Crittercism
 - Git, Jira, Stash, Teamcity
 - Maven and gradle build systems
 - Scrum Practitioner
 - 2013–2014 **Senior Software Engineer**, *Samsung Telecommunication America*, San Jose, CA.
B2B Mobile Solution
 - DM-VERITY
 - Implement dm-verity for latest Samsung Android phones with TIMA (TrustZone-based Integrity Measurement Architecture) support
 - MDM partner solution integration
 - Support third party VPN/MDM solution vendors
 - Determine best integration strategy with partners
 - Educate partners on the use of Samsung MDM SDK

- Develop new SDK APIs for partners if necessary
- MDM Gateway Server Prototyping
 - Openfire XMPP solution
 - REST API prototyping on tomcat
 - Template driven prototyping engine for authentication & control protocols
- FIPS module integration on Android
 - Linux crypto module development
 - Android crypto framework extension
 - Samsung KNOX framework development
- Cloud MDM server development
 - prototype MDM(Mobile Device Management) server architecture using XMPP
 - Openfire
 - Smack
 - Advanced authentication during TLS/SSL handshake

2012–2013 **Senior Software Engineer**, *Samsung Telecommunication America*, Dallas, TX.
Android FOTA Development

- New Android FOTA feature development
- FOTA algorithm improvement
 - Patent Granted: U.S. patent 8,924,777
- Mobile Framework Development
 - Samsung enhancement for Android
 - Samsung Tizen framework
- Support Samsung FOTA solution commercialization on Android
 - Porting for different chipsets
 - Design and development of testing framework

2010-2012 **Software Developer**, *WorldLink, Inc*, Dallas, TX.
Android FOTA Development

- Porting for different chipsets
- Design and development of testing framework
 - Work as consultant

Miscellaneous

2006–2009 **Research Assistant**, *University of Houston*, Houston, TX.
research assistant in wiser group

- Embedded Linux driver development
 - WIFI driver which operates on two wifi interfaces
- Wireless Testbed deployment
 - Python control framework
- Wireless sensor development
 - TinyOS 2.x
- Algorithm prototyping
 - optimization algorithm implementation in matlab
- Network simulation
 - NS2

- QUALNET
- IT support
 - Linux server admin
 - Source control management
 - CMS solution using Drupal

Languages

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|--------|---------------------|
| Java | Expert |
| Python | Expert |
| C | Expert |
| Lua | Intermediate |
| Ruby | Intermediate |

Computer skills

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|-------------------|--|
| Android | Application development, JNI development, framework development |
| Security | openssl, FIPS certification |
| Linux Kernel | Driver developer. General understanding of Linux kernel internals |
| ARM chipset | ARM instruction set, SafeZone, Mobile bootloaders, ARM compiling tools |
| Network protocol | Optimization for mobile networks |
| Development tools | emacs, eclipse, android studio, rubymine, jira, git, p4, gcc, cmake, tcpdump, kismet |