

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

- 2015–Present **Lead Android Developer**, *Turner Broadcasting System Inc*, Atlanta, GA.
Android Development Team
- CNN Android Apps
 - Deliver cutting edge mobile user experience
 - Video Streaming
 - VR
 - Material Design
 - Work with partners such as Google and Samsung
 - Integrate with advertisement solutions: YieldMo, DFP, Outbrain, FreeWheel
 - Integrate with identity management solutions: Gigya
 - Integrate with analytics solutions: Adobe Omniture, Crittercism, Turner Internal Analytics
 - Espresso automated UI testing
 - Mockito unit testing
 - Promote better MVP using dependency injection frameworks such as Dagger 2
 - Work with external code studios in Canada and U.S.
 - Code strcuture design: divide and conquer
 - Automated stress test
 - Code review
 - Side projects: Nodejs, Amazon lambda, cloud9, Amazon Alexa
 - 2014–2015 **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

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- 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

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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

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

Computer skills



| | |
|------------------|--|
| Android | Application development, JNI development, framework development |
| Server | NodeJS, OpenFire, Django |
| 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 |

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Development emacs, android studio, cloud9, eclipse, rubymine, jira, git, p4, gcc, cmake, tcpdump,
tools kismet

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