SRIRAM SHANTHARAM

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Education

UNIVERSITY AT BUFFALO - Buffalo, NY
Master of Science in Computer Science, June 2015 expected

SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING - Mysore, IN
Bachelor of Science in Electronics and Communication, July 2008

Industry Experience

Lead Engineer, Mar 2009 - Aug 2013 | **MOTOROLA SOLUTIONS INC**, Bangalore, India

· Reviewed technical requirements, conducted reviews and tested the server and Android client features of a VoIP product (Push-to-Talk Over Cellular/ PoC)
· Developed an Android application for interfacing the Push-To-Talk mobile application with wearable devices as a self-initiated project. The solution was presented to the director of innovation during the annual innovation day, Srjana
· Developed an automation framework for Android device testing and automated the Android client test cases
· Conducted performance tests on the Android and Windows mobile clients
· Developed an MMS application called Audio Postcard which is shipped on Motorola phones sold by T-Mobile
· Implemented the image processing library
· Conducted Unit and functional testing of the application, automated the tests using JUnit, fixed bugs and documented the application
· Conducted training sessions for new hires on the technical aspects of the PoC system, automation framework and internal processes

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Research Experience

Research Assistant,, May 2014 - Present | **PhoneLab** (phone-lab.org), Buffalo, NY

Structuring Programmer Uncertainty (Ongoing)

· Workshop paper: maybe We Should Enable More Uncertain Mobile App Programming, Proceedings of the 16th Workshop on Hot Topics in Mobile Computing Systems and Applications (HotMobile'15)
· Poster: maybe We Should Enable More Uncertain Mobile App Programming, New England Networks and Systems Day 2014 (NENS '14)

Navjack Sensing (Ongoing)

· This project repurposes discarded smartphones to deploy a city-scale sensing network.

Smartphone Disaster Mode

· Implemented a new mode called disaster mode for smartphones which assists users during a disaster. The solution and results were presented at the White House-sponsored SmartAmerica Expo held in Washington, DC, in June 2014.

Other Selected Personal And Academic Projects

Advanced Computer Systems, Fall 2014

· Analyzed the energy consumed by running the Wi-fi fingerprinting algorithm in conjunction with the sensors available on the device and came up with a new algorithm and library that provides better energy management for localization applications by providing application developers with one single interface where the choice of sensor and localization algorithm would depend on the developer-specified accuracy level and the current activity of the user. (Team project consisting of four members)

Accessibility Feature for the Color Blind, UBHackathon 2014

· Implemented a new accessibility feature to make smartphones more usable to people with various forms of color blindness
· Developed the app and required JNI interfaces to communicate with the SurfaceFlinger component on devices running Android.