

# Ravi Surulikamu

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## Summary

Networking professional • 10+ years of experience • C programmer on linux  
strong software design skills • strong debugging skills • strong problem solving skills

## Software Skills

C • Linux/Unix  
C++ • perl • python • VxWorks  
TCP/IP • UDP • SMTP • DNS • SIP • IMS • MSRP • SigComp

## Experience

### Alcatel-Lucent

Oct '14 - Current

developer in session manager team for 4G LTE networks • co-developed support for dynamic modification of policy options  
• worked on a feature to program IP filters dynamically by resolving a set of FQDNs

### Arista Networks

Jan '14 - Sep '14

co-developed a framework to gracefully take a switch out of (or put it back in) network for maintenance • added support for IP Mroute SNMP MIB (RFC 2932) in Arista EOS

### Cisco Systems (formerly Starent Networks)

Aug '05 - Jan '14

*designed & developed* a framework for integrating SigComp stack in CSCF • a DNS client for Cisco ASR 5000/5500 platform • a library for backing up and restoring provisioned lawful intercepts to file system • a library for managing NAT/Firewall pinholes for Application Level Gateway • a library for managing registered subscriber information in CSCF

*implemented* NAT Traversal of MSRP media (RFC 6135) • 3GPP TS 32.409 performance counters for P-CSCF & S-CSCF • MD5 authentication (RFC 2617) support for IMS • SIP registration support for RFC 3261 Proxy, P-CSCF & S-CSCF (3GPP TS 24.229)

*opensource* added presence static dictionary support (RFC 5112) for decoding SigComp message in Wireshark

*test tools* co-authored an automated test framework, Yatt • developed a SigComp test tool, sigctt • developed a web-based test framework for performance testing of SIP/SigComp protocols

*others* developed a solution for lawful interception for IPSG product • developed a solution for control plane adaptation of Adaptive Bitrate (ABR) video • worked on video pacing for mobile videos • developed a custom solution for E-CSCF to support legacy network

### Juno Online Services (now United Online)

Jun '04 - Aug '05

engineer responsible for email operations & technical escalations • developed a set of perl scripts to effectively control spam mails at various stages • developed a set of perl scripts to report statistics about virus mails received every day • researched on spam samples to find new patterns and assist developers to control spam at various levels

## Education

### Bachelor of Electronics and Communication Engineering

May '04

College of Engineering, Guindy, Anna University • India