ABHIJIT LAMSOGE

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Profile

Highly analytical Software Developer willing to take ownership of core components. Expert in C and Network Programming

Core Qualifications

- Proficiency in TCP/IP protocols
- Information security
- Network penetration testing
- UNIX/LINUX
- Data connectivity
- Mathematics

- Programming and design skills
- Strong analytical skills
- Complex problem solver
- Excellent communicator
- Strong decision maker
- Research and Analysis

Technical Skills

Skills	Experience	Total Years	Last Used
Unix, Linux, VMWare, Windows	Proficient	7 - 8~	Regular
Kali Linux, Network exploitation, Mapping, Zero-Days, Stack/Buffer Overflow.			
Network manager, Netfilter, Iptable, Protocol Coding, Wrappers, Packet Manipulation and Inspection	Good	5	Regular
Wireshark, Burp-Suite, Aircrack-Ng, OphCrack, OpenVpn	Good	5	Regular

Professional Experience

Senior Software Engineer   Jun 2013 to Current
Harman International Connected Car and Global Infotainment
- Custom Packet Filter Framework Design for upcoming projects.
- Design and Implementation of new Network Manger.
- Finding zero-days vulnerabilities in Harman Infotainment system.
- Hacking existing protocol to send manipulated data to HU for compromising its integrity.
- Connman Open Source Network Manager modifications.
- Bluetooth service middleware implementation using commonAPI 2.0.
- Linux Virtual Serial Driver design/implementation/maintenance for various projects, including BMW, AUDI, GM, Orinoco(After-market) OpenSIPS/LinPhone for Car-To-Car voice connectivity.
- QNX Resource manager for Serial interface Message passing and synchronization DialUp framework for 4G connection networks for Asia-Pacific Programs.
- Admin for local server for processing/version control.
- Working on the most cutting edge technologies in Car Infotainment/Connected Systems Submitted 2 white papers for Innovation in technology.
- Technical papers
- 1) Car-To-Car Connectivity

- 2) Hacking Harman Infotainment System via WICOME.
- Patent in Data Compression algorithm(Accepted as Trade Secret)
- Design new product requirement in Technology and provide initial proof-of-concept.
- Research in new field of network security towards Infotainment system, and propose a possible and best feasible implementation, for adaptation.

Designation: Lead Engineer   Aug 2012 to Jun 2013
HCL Technologies
- Intel Project work.
- U-boot Modification in TI-Sitara SDK for Device Firmware Support for SPI NOR flash USB driver modification for DFU support MTD driver for Nand/NOR Flash for partition creation.
- Fixed a lot of Errors in Texas Instruments Sitara SDK (5.6) in mainline repositories.
- Design of GPIO driver and diagnostic utility for Intel CE5300 Atom Media Processor platform along with different SOC support.
- Implementation of Intel open source development labs serial driver loopback .
- Designed and implemented a library to access NOR flash from user space Worked on Intel new USB-Ethernet dongle.

Development Engineer   Aug 2009 to Jul 2012
Digihome Solutions Private Ltd
- Design of application software for Home Automation system(API) using V4I Library.
- Linux Serial driver 8250 changes as loopback driver.
- Implementation of Live Streaming server method for Audio Video two-way communication system.
- Audio Driver modifications for Linux.2.4 using USB subsystem.
- Speex Open Source Codec application
- Device Drivers for GPIO and Multi-master RS-485.
- Created a small Linux distribution from the scratch.
- Configuration of Home automation system
- Design of algorithms and parameters in Home Automation System.
- Setting up network schemes for residential places.
- Maintenance and installation of Software.
- Training of the overall product.
- Company product documentation for Installation, Configuration and Software Debugging.

Skills

- C, Python, Dbus, Shell Scripting
- Middleware, Network Security, OS, Coding
- Linux Drivers and Kernel
- Firewall, IDS, NIDS, Snort, Linux, QNX
- System architecture, API, Automation,
- White and Technical Papers, Patents, X86

Research Interests

- Open Source philosophy
- Operating Systems
- Packet filter, routing, HPC
- Network information gathering
- Encryption cracking
- Parallel computing
- Information Theory and Data Compression
- Guitar Tone study

Education

Bachelor of Engineering, Electronics and Telecommunication   2009
University Of Pune — Pune, India

Interests

- Currently working on my solo album consisting of instrumental rock music.
- Music and background score for short film.
- Member of a Rock Outfit named Riptide in Pune.
- Reading books (fiction, non-fiction, science and math's histories and discoveries), Listening to music (mostly rock), Playing guitar, Chess, Collecting books.

Languages

English , Hindi , Marathi

Additional Information

- Keeping Awareness of current trends in Network Security.
- Efficient in searching stuff online.
- Git repo. link (https://github.com/avlamsox)