

Nitin Ramesh Nimran

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Summary:

- **8+ years of experience** in software development (expertise in - C, C++, VC++, JAVA, Silverlight and C# .NET).
- Currently working as **Member of Technical Staff - Embedded Software Development in AMD-DCSS (Sea Micro)** developing storage/system management software for data center servers **SM15K/SM15Ke, SM20K**
- Previously worked as **Embedded Software Engineer in Fujitsu Network Communications** and developing software for **L2-Switching Devices (802.1AD and 802.1Q)** in C/C++ on Linux/Solaris platform.
- Graduated in December, 2010 - **Masters in Computer Science (Specialization in Networks)** with **3.97 GPA**.
- Worked in Networks Research Lab, Old Dominion University handling various software projects for clients- **Raytheon, Virginia Common Wealth University (VCU) and Hospice Palm Beach (HPBC)**.
- Appreciation in **International Eagle Conference of MMIS, held in Tucson, Arizona Sept, 2009** for innovative projects like MMIS Offline Tool and Blackberry Application Suite which improved business operations for Raytheon.
- Worked as **Systems Programmer in IBM and Fujitsu ODC**, worked on various domains such as Embedded Systems (Smart Cards), Storage (Magnetic Tape Drives) and Networking (Sniffer Detection Tools, SNMP Manager/Agent).
- Research work **Sniffer Detection Tool** and **Global Sign-On using Smart Card** sponsored by **IBM** during Bachelor's.
- **Certificate in Information Technology** for C++, JAVA, Linux, HTML and OS internals from N.I.I.T, India.
- A fast learner of any technology/language and an excellent team player with strong analytical skills.

Skill sets:

Programming languages	C, C++, Visual C++, C# .NET, Silverlight 4.0, JAVA (Core, JSP), Blackberry JDE (all versions), Visual Basic 6.0, PL-SQL, MPI - Cluster Programming, Assembly languages (8085, 8086)
Web technologies	JavaScript, PHP, AJAX, HTML, CSS, XML, Python, TCL scripting
Databases	Oracle 11g, Oracle Lite 11 g, SQL Server 2000/2005, My SQL, MS Access
IDE	Visual Studio 2005/2010, Eclipse, Dev C++, Jdeveloper
Operating Systems	Windows Server 2003, Windows 2000/NT/XP/ME, Linux, Solaris

Education:

Masters in Computer Science - Old Dominion University, Norfolk, Virginia

GPA: 3.97

Bachelors in Information Technology - Govt. College Of Engineering Pune (COEP)

First Class with Distinction

Professional Experience:

AMD-Data Center Server Solutions (SeaMicro), Sunnyvale, CA

Dec 2012 - Current

Member of Technical Staff - Embedded Software Engineer (Team Member)

SeaMicro SM15K/SM15Ke, SM20K

- Designed and developed system/storage management software for new platforms such as SM15Ke, SM20K.
- Debugging/fixing client issues for old SM15K platforms, while enhancing storage management features such raw disk/volume assignment and ATAoE.
- Designed and implemented framework for alerts/alarms and infra support for REST services.

Technologies and tools used: C, Python, Git/SVN.

Fujitsu Network Communications, Sunnyvale, CA

Mar 2011 - Nov 2012

Embedded Software Engineer (Team Member)

FW-9500 Data Services

- Designed and developed forwarding plane software for 802.1Q/802.1AD bridging in Flashwave 9500
- Developing L2 switching entities, L2 protocols (xSTP), Bug Fixing, Testing and Code Review. Apart from development, executed responsibility of stream manager and developed scripts to improve team productivity.
- Covered complete data path which includes modules such as CLI/TL1, Management and Line cards.

Technologies and tools used: C, C++, ClearQuest/ClearTool, Python, TCL scripting

Routing Software Panels Project

- Designed new communication protocol for interaction with hardware router devices and thus enhanced performance of overall routing process in broadcast industry.
- Developed easily configurable software consisting of multiple web-based panels to communicate with different hardware router systems with rich user interface.

Technologies and tools used: Silverlight 4.0, C++, C# .NET, IDE- Visual Studio 2010.

Research Assistant (Team Lead - Raytheon, Team Member - HPBC)

1. Raytheon, Virginia

- Developed Blackberry mobile applications such as Dashboard, Location Maps, Parts Availability GridView and Barcode Scanner to help the managers quickly access critical information with effective visuals.
- Developed Offline tool which allows mobile workers to access enterprise data even in the absence of a network connection and synchronize their offline operations on light database with enterprise database.

Technologies and tools used: Oracle 11g, Oracle Lite 9.0, HTML, JavaScript, PLSQL, JSP, Blackberry JDE 4.7.0

2. Hospice Palm Beach, Florida

- Developed software for physiotherapists, which interacts with wired sensors and provides various metrics such as current position, orientation, stylus state and other comparative information to help diagnose pain/injury.
- Developed various mobile applications for physicians to provide quick information/alerts about patients.

Technologies and tools used: VC ++ 6.0/2005, Blackberry JDE 4.0, Oracle 11g, PLSQL, DB Artisan, HTML, AJAX

Systems Programmer (Team Lead - Windows, Team Member - Linux & Solaris)

1. SCSI Tape Drive Tool

- Laid the architecture for Windows delivery by developing prototypes (using VC++, Windows-IPC) and thus lead team of 8 members successively for two quarters.
- Acquired in-depth knowledge of SCSI communication and Windows tape drives architecture.
- Developed generic software application in VC++ (MFC and Win32) communicating with different tape drives to perform read/write, sense operations and diagnose problems associated with tape drives/tapes.
- Developed software modules (in C for Linux, Solaris delivery) interacting with Magnetic Tape Units.

Technologies and tools used: C/C++, Visual C ++ 6.0 and 2005, Visual Source Safe, MS Visio.

2. C-Bay Dictation Server

- Implementation of SNMP Agent (DLL - running as Windows service) configured on different sites.
- Implementation of SNMP Manager to collect and analyze information provided by SNMP Agents.

Technologies and tools used: Visual C ++ 6.0 and 2005, Visual Source Safe, MS Visio.

Software Developer (Individual Contributor)

1. Global Sign-On using Smart Card

This software communicates with contactless smart card reader connected to serial port of the computer and allows users manage sensitive information on smart card such as personal email accounts and digital signatures. Implemented a software module for serial port communication with Smart card reader and performing operations on smart card (in Visual C ++ 6.0).

2. Sniffer Detection Tool - Development and Research Paper

Sponsored project developed in C (Linux platform) to detect sniffer executing in a LAN. The tool uses *libnet* and *pcap* libraries to construct/send invalid packets to target machines and study their behaviors to detect sniffer. The tool was very powerful to detect sniffers such as *Tcpdump*, *EtherDetect* and *WireShark* executing on various platforms.

References

Available on request