

Yogesh Yashwant Patil

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yogeshpatil111@gmail.com

PROFILE

Skilled software engineer with M.Tech. In Computer Science from IIT. Strong background in Software Design and Development.

EDUCATION

Master of Technology in Computer Science(8.44/10) <i>IIT Guwahati</i> Thesis topic: Network Management for Fixed Wireless Rural Area Network	2005
Bachelor of Engineering in Computer Science and Engineering(62/100) <i>Mumbai University</i>	2002
Diploma in Computer Technology(66/100) <i>Mumbai University</i>	1999

PUBLICATIONS

Patent

Domain Specific Search, Yogesh Patil, 2007(Pending)

Master's Thesis

Network Management for Fixed Wireless Rural Area Network, Yogesh Patil, 2005

EXPERIENCE

Member of Technical Staff - 3

March 2006-Present

Sun Microsystems

Primary responsibilities include design, documentation, development and testing of System and Virtualization Management software.

Designed, Developed and tested code written for Sun Enterprise Management Solutions(xVM Ops Center, xVM Server, Sun Management Center).

Software Engineer

August 2005-March 2006

Flextronics Software Systems(Formerly HUGHES Software Systems, currently known as Aricent)

Primary responsibilities include design, development and testing.

Designed, developed, ported and tested network connectivity testing tool (For enhanced ICMP).

Developed and tested tool using C.

COMPUTER SKILLS

Languages

Proficient in: C

Familiar with: Java, C++, TCL, Tk, Shell Programming, Visual Prolog, Perl, Assembly Language programming

Software

Database: MySQL

Tools: Netbeans, Sun Studio Performance Analyzer, dbx, Microsoft/Star Office, Lex, Yacc

Code Management Tools: Teamware, CVS, Mercury

Platforms: Linux, Solaris, Microsoft Windows® 9X/ME/XP/NT/2000

PROJECTS

XVM Ops Center

Description: This is Sun's Enterprise management tool. I am responsible for development of monitoring and management, virtualization APIs for the new product.

Duration: May 2007 to till date

Team size: 100+

Platform: Solaris, Linux

Language: Java, C

- **Virtualization Management**

Management of Virtualized Guest(s) in a single Server and Centralized Virtualized management environment.

Role: Design and develop JAVA coding for Guest Management operations such as Shutdown, Restart, Start, Pin VCPUs, Attribute modifications, Pause, Resume.

Duration: March 2008 - Till Date

Language: Java

- **Xen Infrastructure Prototyping**

Created a prototype environment to perform basic virtualization operation using Xen-library and JNI bridges for integration.

Role: Design and implement a prototype for Virtualization management using Xen-library in C and JNI interfaces to integrate with UI.

Duration: Dec 2007 - Feb 2008

Language/Tools: C, JNI, xen library

- **System Monitoring and Thresholding**

Monitoring and Thresholding for Sun Hardware and OSs for a centralized System management.

Role: Design and develop JAVA coding for Hardware/OS monitoring and Thresholding for various parameters such as CPU fan, CPU Temperature, etc.

Duration: May 2007 - Jan 2008

Language: Java

System Management Solution (SunMC)

Description: This software is a two layer system management product (Server Layer and Agent Layer). I was responsible for work mostly in agent layer. I was also involved in porting application to other platforms like X86, Linux, OPL.

Duration: March 2006 to Apr 2008

Team size: 10+

Platform: Solaris, Linux

Language: C, TCL, Shell Scripting

- **Porting SunMC Server on X86 hardware**

Porting SunMC Server on X86 hardware with services such as discovering assets, monitoring and thresholding various attributes.

Role: Debug and complete discovery functionality for X86 SunMC Server. Used dbx debugger and modified C code for completing this service. Fixed many Big-Endian/Little-Endian issues primarily related to networking.

Duration: July 2007

Language/Tools: C, dbx

- **Manage SunMC agentry**

Manage SunMC agentry which is primarily written in TCL, scripting and C. Look into various bugs/issues in this area.

Role: Provide technical support to Sustaining team for various customer issues/bugs. Work involved in C, TCL, scripting and porting environment such as Linux, Solaris, OPL based systems.

Duration: May 2007 – Apr 2008

Language/Tools: C, TCL, shell scripting

Platforms: Solaris, Linux

- **Porting SunMC agentry on OPL hardware**

Provide updated agentry for OPL hardware to make it ready for latest version of SunMC.

Role: Provide OPL bits of SunMC agent for the modified SunMC code. It primarily involved compiling code on OPL hardware and debugging minor C code or make file modifications.

Duration: May 2007 - June 2007

Language/Tools: C

Platform: Linux

- **Enhancement of X86 Config Reader**

Add monitoring functionalities using remote management tools such as ipmitool. This information includes IPMI User, BMC Inventory, Chassis Status, Sensor Info, LED Info, System Event Log. For more details, refer article mentioned below.

Role: Design and develop config reader using SunMC agentry infrastructure (TCL based) and scripting using ipmitool.

Duration: May 2007 - Dec 2007

Language/Tools: TCL, shell scripting

- **Enhancement and testing of Solaris Container Manager**

Provide development and testing effort for an enhancement of Solaris container manager used in SunMC for zone management.

Role: Develop code for restricting latest zone functionalities to latest Solaris OSs only. Regression testing for the entire product for older Solaris OSs such as Solaris 8/9/10U1/10U2. Testing included generating and execution of test plans on various Sun Hardware (SPARC/X86) platforms.

Duration: Nov 2006 - March 2007

Language/Tools: Shell scripting, C

- **Porting SunMC Server on Linux**

Build SunMC code on Linux platform; resolve the issues; test on Sun Hardware

Role: Build and debug SunMC Server code on Linux platform.

Duration: Oct 2006 - Nov 2006

Languages/Tools: C

Platform: Linux

- **Study of SunMC Discovery service**

Study Discovery service in SunMC.

Duration: March 2006 - Apr 2006

N1 System Management Solution (N1SM)

Description: This software is a lightweight system management product for limited monitoring functionality and OS provisioning for a medium to large network.

Duration: Apr 2006 to Dec 2006

Team size: 100+

Platform: Solaris, Linux

Language: C, TCL, Shell Scripting

- **Enhance Security Management for N1SM**

Study existing Security management and authorization infrastructure for N1SM; propose enhancement and deploy them.

Role: Understand the security infrastructure and understand new requirements.

Duration: Nov 2006 - Dec 2006

- **Develop module management for N1SM**

Understand N1SM infrastructure. Identify the logical groups for various services and propose a module based management according to business requirements.

Role: Understand N1SM infra and design module management solution

Duration: Aug 2006 - Sept 2006

- **Develop HeartBeat Service for N1SM**

Design and develop a HeartBeat Service to ensure that assets discovered by N1SM. This service will ensure the availability status for an asset

Role: Design Heartbeat service. Develop an agency solution for sending heart beat beacons. Develop server solution to gather heart beat beacons or any incoming information to update asset status over regular interval.

Duration: Apr 2006 - Aug 2006

Languages/Tools: Java, TCL, shell scripting

SNMP based enhanced Ping module for Testing Machine

Description: SNMP based Ping Module for Test machine.

Duration: Oct 2005 to Nov 2005

Team size: 3

Role: Design, development and testing

Platform: Linux

Language: C

Fixed Wireless Network for Rural Areas

Description: The project is a long-term investment by Govt. of India to provide high-speed broadband communication to rural areas by using 802.16 standard devices. This project targets low-cost communication solution for rural areas. Project work includes survey of existing projects, design and deployment of wireless antennas, design and implementation of efficient routing protocol for rural environment, development or customization of device drivers, design and implementation of efficient Network Management and Security measures.

Sponsor: MHRD, Govt. of India

Duration: July 2004 to July 2005

Team size: 2

Role: Survey of existing projects, Design and deployment of wireless network (using 802.11b and 802.11g antennas), Design of efficient routing protocol, Design and implementation of proxy, authentication, accounting and project specific Network management tools.

Platform: Linux, Windows

Language: C

Scripting Languages: Perl, PHP, Shell, GTK+

Database: MySQL

Network tools: Squid Proxy, Apache Web server, RADIUS, LDAP, Kerberos, Windows IIS

MAJOR ACHIEVEMENTS

IEC Innovation Award for Patent on Domain Specific Search (2008).

IEC Team Excellence Award for the contribution in Solaris Container Management work in SunMC (2007).

Mentee in Sun's prestigious SEED program (Sept'06-Aug'07).

(Study of Sun Studio performance Analyzer for software analysis.

Study of Operating System scheduler for CMT processor)

GATE 2003, Computer Science & Engg., 98.99 Percentile, AIR 356 out of 37797.

SEMINARS AND ARTICLES

"[What's New in Sun Management Center 4.0](#)", October 2007, Ravi, S., Sanjaya Sahu, Gaurav Misra, Vineet Gautam, Abhijeet Chitale, Yogesh Patil, Amol Chiplunkar, and Navin Kumar.

"[Monitoring x86 systems using x86 config reader](#)", October 2007, Pallavi Madhusudhan and Yogesh Patil.

"[Enhancements in Solaris Container Manager 3.6.1](#)", May 2007, Dakshina Dasari, Amol Chiplunkar, Abitav Dubey, and Yogesh Patil.

"Wi-Max Network", Jan 2006, Datacomm, Flextronics Software Systems.

"Network Switching", Dec 2005, Datacomm, Flextronics Software Systems.

"Location aware Routing Protocols", April 2004, IITG.

PERSONAL INFORMATION

Date of Birth: 1st Nov. 1980.

Gender: Male.

Marital Status: Married.

Languages Known: English, Marathi and Hindi.

Passport No. : E3197923.

Driving License No. : MH05|403|C-6626.
