MANJUNATH MAGESWARAN 801-448-3301

180 Elm Ct. #506, Sunnyvale CA-94086. mmageswa@gmail.com , LinkedIn, Github

SUMMARY

- Master's degree holder with more than 2 years of commercial product development experience.
- Strong academic and professional background inoperating systems, data structures, algorithms, object-oriented programming, multi-threaded programming, computer networkingand socket programming.
- Familiar withAgile Software Development Life Cycleand been part of 3 product releases.
- Can communicate effectively with the immediate team and cross functionally and interface with people with confidence and clarity.
- A quick learner and highly motivatedto work in challenging projects across domains.

Core Expertise

Languages: C, C++, Java
Scripting: Perl, PHP, Shell, Python
Operating Systems: Linux, UNIX – Solaris, AIX, HP-UX.
Debuggers: gdb, kdb, dtrace, strace
Networking:TCP/IP, UDP, DNS, Ethernet, SMTP, POP, HTTP
Security:DES, 3-DES, RSA, SSL
Web: Html5, CSS3, JavaScript, MySQL, jQuery, AJAX
Version Control: CVS, git, Clearcase

PROFESSIONAL EXPERIENCE

Software Engineer, Symantec Corp. Mountain View, CA. Apr 2011– Present (1 year 9 months)

Product: Veritas Cluster Server (VCS) – a product that delivers high availability and disaster recovery for business-critical services running across your physical and virtual infrastructure.

- New user-land development in the existing VERITAS Cluster Server product (C, C++ and Perl).
- Debugging and solving customer escalations by analyzing complex configurations and crash dumps.
- Experience with various Enterprise Linux (RHEL and SUSE) and UNIX (AIX, Solaris and HP-UX) operating systems.
- Owner of the networking agents module in VERITAS Cluster Server (C, C++, Perl)
- Experience with NIC, IP, MultiNICA, MultiNICB agents which are bundled with VCS.
- Responsible for new development and troubleshooting all networking agents across platforms like Linux, AIX, Solaris and HP-UX.

Product: Symantec ApplicationHA- a high availability product for business-critical applications through application visibility and control in virtual (VMware, Solaris LDOM, IBM LPAR, and KVM) environments

- Developed customer centric scripts to enable Symantec ApplicationHA on AIX LPARS.
- Experience with IBM virtualization with LPARS, management of LPARS using HMCs, VIO servers, LPAR profile management, virtual adapter configurations, live partition migrations and network configurations.

Jr. Software Developer, SS8 Networks, Milpitas, CA. Nov 2010 – Mar 2011 (5 months)

Product: XCIPIO- a network interception product that bridges communications networks and law enforcement monitoring centers.

- Developed an audit feature for **XCIPIO**.Coded in **C++**.
- Worked with **3DES** algorithm and file integrity check tools like **AFICK, AIDE,** and **BART**in UNIX environment.
- Composed test plans, tested the feature and automated various test cases.
- Experience with setting up test beds and configuring network interfaces of Linux, windows and Solaris machines.
- Used packet analyzers like WireShark, snoop, tcpdump, tcpreplay.
- Wrote automated Shell and Perl scripts for packet collection and analysis.

PATENTS

Co-inventor of "Private Communication between Management Entity and Virtual Machines to Provide High Availability and Dynamic Relocation of Virtual Machines". IDF #: SYMA0139/111892.

AWARDS

- **Standing Ovation Award** from Symantec Engineering team for action in customer escalations and contribution towards Symantec ApplicationHA release.
- **Standing Ovation Award** from Symantec Marketing team for action in the making of Symantec's Disaster recovery solutions videos (1 min and 10 min versions).
- **Achievement Award**for New Engineering Graduate Students, University of Florida.

EDUCATION

Master of Science **GPA: 3.8/4.0** May 2010
Major: Electrical and Computer Engineering.
Minor: Computer and Information Science and Engineering.
University of Florida, Gainesville, FL, USA.

Bachelor of Engineering **GPA: 8.2/10** May 2008
Major: Electronics and Communication engineering
Madras Institute of Technology, Anna University, Chennai, India.

PROJECTS

- Implemented a scalable, robust and fully functional **CHORD** (a peer to peer distributed-system) with join, leave and lookup operations [RMI, socket programming, multi-threading, **Java**& **UNIX**].
- Implemented an **SSL-**like routine for secure data transfer with both encryption and integrity protection using security protocols likeCBC, PCBC and CFB with 3DES, RC4 and RSA. **[Java]**
- Created an application implementing the **STRASSEN** algorithm (a distributed algorithm for matrix multiplication) on eight host-machines connected in a TCP/IP network to compute the power of a square-matrix [multi-threading, **Java**& **UNIX]**
- Incorporated a ***message passing system*** with token ring structure on multiple machines connected in a TCP/IP network.**[s**ocket programming, multi-threading,**Java& UNIX]**
- Developed an improved Datagram Congestion Control Protocol(**DCCP**) with Explicit Congestion Notification (ECN) and reliability features for wireless sensor networks. **[C++**&**NS-2]**
- Designed an instruction set simulator for a custom developed assembly languageusing a classic 5-stage pipeline and its optimization using the **TOMASULO** algorithm.**[C++]**
- Collected and analyzed the Bluetooth and Wi-Fi traces around the campus of University of Florida over a period of 4 weeks to study human behavioral profiles which can aid in the design of ad-hoc network protocols.

ACTIVITIES

- **Incident Commander,** Symantec Business Continuity Management group.
- **Treasurer,** Electrical & Computer Engineering Graduate student organization, University of Florida.
- **Member,** National Sports Organization (NSO) Camp and college soccer team, Anna University.
- **Quiz Master,** MITAFEST' 08**–** a National level cultural festival, Madras Institute of Technology, Anna University.
- **Member,** Electronics Engineers Association (EEA), Madras Institute of Technology, Anna University.