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Priyesh Vakayil

Systems Software Engineer

Experience

09/15 - Now **University of California, Santa Cruz**

Teaching Assistant/Grad. Student

Teaching Assistant for undergrad course "Computer Systems and Assembly Language" for the Fall and Winter quarter

02/12 - 08/15 **Oracle India Pvt. Ltd.**

Software Engineer

Worked for Oracle System's Group. Primarily fixed bugs in Solaris Kernel's core networking components like TCP/IP, MAC, network level virtualization and utilities

Responsibilities and Competencies

- Fixing bugs complex panics/crashes/hangs in both x86 and SPARC architectures.
- Security issues/projects and networking performance bugs.
- Debug tools like Dtrace, mdb and truss.
- Sniffing tools like wireshark/tshark, snoop, tcpdump.
- Have worked on features for high availability like IPMP, aggregation, VRRP and virtualization technologies like LDoms, VNICs, zones, and flow control.
- Have given and attended TOIs/ unconferences to colleagues
- Have trained Solaris Network Administrators, Technical Writers and customers about new features.
- Code Integration processes such as Code Inspection/Reviews, Code Integration(RTI), Backporting and tools such as Mercurial, BugDB and grok.
- Worked extensively with other Unix-like environments, like bsd/linux and have compiled and ported multiple third party tools on them.
- Authored various cheat-sheets and articles for other teams to use.
- Maintaining servers in the local lab to create configurable/on demand virtual machines for team members to use - VirtualBox for x86 and Oracle VM for SPARC.
- Thorough understanding of Solaris kernel implementation.
- Conducted product promotion presentations for the Oracle Users Group community from various countries at Hyderabad.
- Received several appreciations/certifications/awards for solving highly complex issues.

10/10 - 01/12 **Huawei Technologies, Bangalore**

Software Engineer

Worked at Huawei's research facility in Bangalore. For the most part researched, designed, prototyped and implemented several features of the SNMP protocol to support Huawei's OS (VRPV8) which is deployed on their routers and switches (NE5k series).

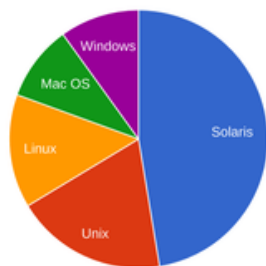
Responsibilities and Competencies

- Developing a Common routing platform for most Huawei Network and Communication equipment (Hands on experience with NE5k series of Routers).
- Developing features, fixing defects and resolving crashes.
- Actively involved in design phase brainstorming and writing SRS, HLD and LLD.
- Developed a feature to support SNMP Multi-VB Get-Bulk operation
- Added a feature to support private VB Traps/Informs
- Designed and coded a feature for an SNMP Agent to connect to a Manager based on FSM of Socket component in VRPV8.
- Worked on mcHuawei (Huawei's MIB Lex and YACC compiler) - Wrote a feature that converts RFC MIB files to a generic format which can be modified by L2/L3 protocols for their customized needs.

Languages



OS Knowledge



Tools/Utilities



- Worked extensively in development phase testing like UT, CT (CxxTest framework) and IT.
- Individually set up CT framework for SNMP. Also worked extensively in UT for improving code quality.
- Worked on IPC, Networking and DB.
- Software processes like Agile Software development life cycle.

Skills & Strengths

- Delivering bug free, maintainable and performance optimized features/projects on-time.
- Very good at designing scalable and maintainable software.
- In-depth knowledge of OS concepts/C language.
- Can debug bugs/panics/hangs promptly and on short notice.
- Fast learner, smart worker and excellent team player.
- Good at presentation and mentoring.

Education

2015 - 2016 **Masters of Computer Engg.** [Univ. of California, Santa Cruz](#)
Specialization in Networking. "Analysis of Algorithms"(A), "Computer Networks"(A-)

2005 - 2009 **Bachelors of Electronics and Communication Engg.** [Univ. of Calicut](#)
Graduated with First Class

Certifications and Contests

- NIIT .Net Framework Certification
- Aptech Java Certification
- First prize for College Debugging in C Competition
- First prize for College Technical Quiz Competition
- Won multiple Math Skill Contests
- CBSE South Zone India Swimming Bronze Medalist
- Captained High School Basketball Team

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