SALIL KANITKAR

1229 Vicente Drive, Apt 30 • Sunnyvale CA 94086 • Ph No: 812 272 4134 • salil.kanitkar@gmail.com

EMPLOYMENT

VMware Inc., Palo Alto, USA: MTS, VMware-View Group ***July 2012 – Current***

- **"Printer Redirection from Linux machine to a Windows VM over PCoIP"**
  - Designed, developed, tested and shipped (Q1-2013) a library that enables third party plugins created to work over RDP virtual channels to work on top of PCoIP virtual channels (PC-Over-IP – a VMware patented remoting protocol) – library is named "**RDP-VC-Bridge" (C++, Linux, Multithreading, WTS API)**
  - Built the complete Printer Redirection (Linux to Windows) feature in VMware-View by combining the **RDP-VC-Bridge** with a remote printing driver provided by a VMware partner.

Cisco Systems, San Jose, USA: Summer Intern, Data Center Switching Technology Group ***May 2011 – Aug 2011***

- **"LISP (Locator Id Separator Protocol) Implementation for Mobile Nodes."**
  - Developed map-cache entry population feature for LISP-mobile nodes. **(C, Socket Programming, Unix)**
  - Coded the 'Update LISP Configuration' feature to the LISP Android App **(Java, Sqlite)**
  - Part of a team of 4 Cisco engineers for demoing the LISP-mobile-node functionality to AT&T in July'11.

Marvell Technology Group, Pune, India: Software Engineer, Wireless R&D Group ***Aug 2008 – July 2010***

- **"WiFi-GW"**
  - Solely responsible for deploying Storage server support on Marvell WiFi router using Samba. **(C, Unix, JQuery)**
  - Designed and implemented Port-forwarding and Port-Triggering template support. **(C, iptables)**
- **"Guruplug Server"**
  - Creating development SDK, for exercising Marvell Kirkwood processor functionalities. The SDK ships with the hardware. **(Deb package source repos, Perl Scripting)**
  - Post-release product support via the plugcomputer.org forum. **(interfacing with Partners and Customers)**

EDUCATION

Master of Science – Computer Science ***July 2010 – May 2012***

North Carolina State University, Raleigh, North Carolina **GPA: 4.00**

Coursework: Operating Systems (A), Computer Networking (A), Cloud Computing Technology (A), Object Oriented Systems(A+), DBMS (A+), Network Security (A), Design and Analysis of Algorithms (A-), IT Systems(A+), Computer Architecture(A+).

Bachelor of Engineering (Computer) ***June 2004 – July 2008***

Pune Institute of Computer Technology (PICT), University of Pune (UoP) **GPA: 4.00**

OPEN SOURCE PROJECT CONTRIBUTIONS

- Incorporating RFC4970 (Optional Capabilities RI LSA) and RFC5642 (Dynamic Hostname TLV) support for OSPF in wireshark dissector. (**C, wireshark**) (***This patch is accepted & committed upstream by wireshark community.***) http://anonsvn.wireshark.org/viewvc?view=revision&revision=40073

ACADEMIC PROJECTS

- Development of a User-level Thread Library with multi-core support including custom mutex and condition variables and unprioritized preemptive scheduler. **(C, Unix Software Signal Handling)**
- Provenance Management system for the VCL Cloud Infrastructure. **(Python, PHP, Shell Scripts, MySQL)**
- Implementation of Chord Algorithm for a P2P RFC Distribution system. **(C, Socket Programming, Unix)**
- Designed & developed a Forum-like web application to give live feedback during lectures. **(Ruby on Rails, Sqlite)**
- Non-Quiescent Checkpointing for SimpleDb system. **(Java)**
  The source code of all of the above projects is at - https://github.com/salilkanitkar
- Worked as a **Teaching Assistant** for Graduate Level Operating Systems Course (CSC501).

TECHNICAL SKILLS

Languages: C, C++, nVIDIA CUDA C and basics of Ruby on Rails, Python and Java
Skill Set: Well versed with configuration of ESX Hosts using vCenter Server, vSphere, Flashing custom ROMs on Embedded Systems
Tools: git, Perforce, MySQL, iperf
Operating Systems: Linux (Debian and Fedora based distros), Windows