Nitin Khanna

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Objective

Seeking a challenging role in the field of Network Engineering in your company.

Education

University of Colorado at Boulder, CO
Masters of Science - *Telecommunications*   August 2010 - May 2012
Courses: Telecommunications Systems Lab (Cisco, Juniper and Brocade equipment), Network Management with Python Programming, IP Routing Protocols (BGP, OSPF, RIP), and IP Network Design   GPA: 3.5/4.0

Panjab University, Chandigarh
BE - Electronics and Electrical Communication Engineering   July 2005 - June 2009

Technical Skills

<u>Language skill set</u>: **Python**, Perl, Java, C, .NET, Socket programming in Python
<u>Operating Systems</u>: Mac OS X, Unix, Windows, RHEL, SLES, Arch Linux, and FreeBSD
<u>Technical skill set</u>: Fibre Channel, SAN Fabric, MPLS, Routing Protocols (RIP, OSPF, BGP), VPN, Multicast, Router/switch configurations (Cisco, Brocade), IPSec, 802.11b/g/a, Load Balancing (Brocade)
<u>Software</u>: GNS3, Wireshark, VMware vCenter Server 5.0, Network Analyzers (Agilent, JDSU), and currently studying OpenFlow and VMware vSphere 5.

Work Experience

Brocade Communications, Broomfield, CO
Software Test Engineer – *SAN/Adapters*   June 2012 - July 2013
- Tested (HBA) Adapters, **SAN** switches, and Ethernet Fabric Switches.
- Created Automation Tools using **Perl** for increasing efficiency of hardware testing for faster turnaround of customer issues and a faster release cycle.
- Participated in design decisions regarding Adapter features and hardware.
- Aided large OEMs such as IBM, Dell and customers in troubleshooting critical issues in SAN Networks or Data Centers.

Aircell Business Aviation Services, Broomfield, CO
Software Engineer – *Web Services*   Jan 2012 - June 2012
- Constructed java based services infrastructure of new customer-oriented web tool to aid in streamlining purchase and planning of Aircell products.

University of Colorado Boulder
Software Engineer – *Python/VMWare*   Sept 2011 - Dec 2011
- Converted open-source network simulator software **GNS3** into scalable web-based application for students to design and troubleshoot virtual computer networks.
- Built VMware ESXI 5.0 based virtual computers as part of the web application.

National Snow and Ice Data Center
Software Engineer – *Java*   Jan 2011 - Sept 2011
- Created java web application for NASA funded project to enable scientists to access and analyze large amounts of ICESat Geoscience satellite data from the NSIDC data center under the NASA LIDAR Access System (NLAS) project.

- Worked on open source java software package RAMADDA to build a java based API; added Google Earth and OpenTopography based visualization of data.

Infosys India Ltd
Systems Engineer Oct 2010 – July 2011
- Completed Data Warehousing project for Kodak Gallery Project to aid management decisions on Marketing and Financial analysis and forecasts; project selected as 'Vital' analytical tool for Core business by client.

Projects and Training

- Built a **virtualized version of open source python based software GNS3** to provide scalable network emulation web app for University students using VMware vSphere, vCenter and python in a distributed computing environment. As a result, students were able to use the service to configure virtual routers from their web browser leading to significant savings.
- Developed "Network-Mapper" project in Python that studies the network and designs a replica for GNS3.
- Project on **Brocade Load Balancer ServerIron 4G** to build a load-balancing environment with failsafe
- Completed Telecom Lab with hands-on experience with network architecture equivalent to CCNA certification.
- Worked on Java with open source software RAMADDA to build a webserver for NASA Lidar ACCESS System (NLAS), funded under NASA for managing and visualizing data from the ICESat Geoscience Laser Altimetry System (GLAS).
- Wrote tutorial on AppFog PaaS for using Amazon Web Services to host web applications. Was selected to write book on the topic by prominent UK based publisher.
- Provide solutions to Networking, programming and web applications based questions on StackOverflow.

Achievements

- **"Most Spirited Team" award** for excellence in teamwork and spearheading fast and efficient growth of each team member in both on and off duty events in Infosys.
- Successful completion of Infosys Technologies Ltd Software Engineer Training with 4.96/5.0 CGPA, with recognition and awarding of efforts with extensive pecuniary benefits.

Personal

I am an avid blogger and love being updated on the latest technologies out there. I love interacting with people on social media but love to balance it out by spending time outdoors. I've taught myself a lot of programming so that I can hack together projects that interest me and then gone on to use those skills at the professional level.