

Arvind Vijayanand
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Education

University of Maryland – College Park, MD
Master of Science, Telecommunication and Management

September 2015 – May 2017

BMS Institute of Technology – Bengaluru, India
Bachelor of Engineering, Telecommunications

September 2010 - June 2014

Experience

IQ Solutions

Rockville, MD (September 2016 –December 2016)

Network Engineer – Intern

- Assisting Senior Network Engineer with Enterprise firewall settings and activation.
- Implementing MAC Address filtering to allow trusted connections obtain secured access to the network.
- Liaising with the IT infrastructure team to log assessment and inventory check for all Networking and IT equipment.
- Activation and setup of Aruba device networks for employees accessing remotely through the cloud.
- Liaising with networking team on enterprise data-center shift project to a remote location in the coming months.

Cognizant Technology Solutions

Chennai, India (September 2014 –May 2015)

Programmer Analyst Trainee – Quality Assurance

- Managed quality assurance testing cycles for pharmaceutical client AstraZeneca.
- Performed local and full regression testing cycles pertaining to client user interfaces and online databases connectivity.
- Liaised with product management and development teams on application remediation within software development life cycles.
- Led knowledge transfer sessions with new quality assurance teams and recommend new testing strategies.

BSNL Govt. of India

Bengaluru, India (July 2013 – August 2013)

MPLS technology Solutions

- Collaborated with engineering teams with specification designs and implementations of managed leased line networks.
- Designed and implemented multi-protocol label switches for Bangalore post office branches
- Implemented managed leased network topology and surveyed main HLR routers throughout city of Bangalore.
- Published best practice findings pertaining to provisioning of multi-protocol label switching into district telecom centers.

Academic Projects

IP Dossier Application in C using TCP/IP and Linked Lists

College Park, MD (November - December 2016)

- Designed a DNS dossier application with an interactive command user interface.
- Simulated a client-server transmission protocol flow using TCP/IP protocol in Linux OS interface.
- Performed searching and retrieving of client's IP address requests in the server side using Linked Lists.
- Implemented a Binary Search Tree to perform the Linked List search as an added functionality.

OpenStack cloud - Setup, Experimentation and comparison

College Park, MD (September- December 2016)

- Setup OpenStack cloud environment through virtual Linux machines.
- Studied OpenStack architecture and established public and private networks using Neutron networking.
- Implemented features namely Object Storage (Swift), Image Services (Glance), Horizon, Keystone, Trove and Nova.
- Additionally, demonstrated OpenStack queuing operations using Python scripts.

Cryptographic Data Transfer Authentication Program in JAVA

College Park, MD (September – December 2016)

- Simulated unidirectional data transfer of packets using User Datagram protocol (UDP).
- To provide added reliability, incorporated RC4 cryptographic authentication algorithm.
- Implemented the source code in Java using ECLIPSE environment.

Technical Skills

Programming Languages and tools

- Java, C/C++, MATLAB, HTML, Python (Databases Certification). Github (Linux, Ubuntu, Windows and OSX), Cisco IOS, Mentum Planet (Windows), KEIL, NMAP / Aircrack/ Metasploit (Kali -Linux), firewalls, Mininet (Linux, Ubuntu), SAS Viewer (Windows 7), Excel / Powerpoint / Access / Word (Windows), Keynote (OS X), CCNA commands.

Networking protocols

- BGP, TCP/IP, UDP, MPLS-VPN, MLLN, IPV4, ARP, RIP V1/V2, OSPF, DNS, DNSSEC, DHCP, Ethernet, DVR, SDN.