**VRAJESH PRAJAPATI**

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**ACADEMIC CREDENTIALS**

**Masters in Telecommunications** (Management)**,** **(3.9/4.0)** Expected May 2018

University of Maryland, College Park, MD

Courses:  *Cloud Computing (#1 and Best student, A+), Networks and Protocols II (A), Internet of Things (A-),*

**Bachelor of Engineering in Electronics and Telecommunication Engineering** (**8.93/10.0**) May 2016

Sardar Patel Institute of Technology (S.P.I.T.), affiliated to University of Mumbai, India

Elective Courses: *Data Compression and Encryption (10/10), Telecom Network Management (10/10)*

**CERTIFICATION:**

**AWS Certified Solutions Architect – Associate** March 2017

Designing and deploying scalable, highly available, and fault tolerant systems on AWS, Selecting the appropriate AWS service based on data, compute, database, or security requirements, Migrating an existing on-premises application.

**EXPERIENCE**

**Instructor and Adjunct Resource Person,** *Linux System Administrator*June 2015- July 2016

R&D lab, S.P.I.T., Mumbai

* Installed and configured basic Apache v2.2 web server, FTP, SSH, DNS and DHCP servers on UBUNTU 14.04
* Install Virtual Box, Guest OS(Ubuntu, Fedora, CentOS) configure and troubleshoot network settings
* Select Workshops Conducted: Linux System Administration, Introduction to Python programming
* Trained over 220 students through workshops and seminars

**Assistant Researcher,** *Embedded Software Engineer* July 2014 - June 2016

R&D lab, S.P.I.T., Mumbai

* Programmed a highly automated control algorithm for Resonant Inverters on DSP using Code Composure Studio
* Analyzed and Optimized Embedded C code to reduce execution time by 70%

**PROJECTS**

**Determination of channel capacity in cellular network using Python** Feb 2017

* Developed a python module to find the channel capacity for required Grade of Service in a cellular network
* Reduced the Complexity from O(n) to O(log n) using Binary Search Algorithm

**Implementation of Open Stack based Private Cloud Iaas**  Dec 2016

* Installed OpenStack service using DevStacks’ source script from Git master repository
* Configured an OpenStack private cloud with characteristics like AWS.
* Experimented with Nova, Neutron, Swift, Cinder, Glance, Keystone and Database services using both Horizon and scripting and performed Troubleshooting of configuration errors.

**Design and Deployment of Custom Cloud Infrastructure using Amazon Web Services (AWS) Iaas** Oct 2016

Team Lead, Network Architect

* Designed and Developed Network Infrastructure of a startup with a VPC, 4 subnets and 10+ servers.
* Performed Troubleshooting to resolve 25+ connectivity problems for inter-subnet services
* Supervised deployment of Apache Web Server, FTP Server and MySQL Database server with Elastic Load Balancing (ELB) and Auto-Scaling capabilities to maintain high availability.

**SLab - Development of Smart Labs using Python**  May 2016

Team Lead, Software Developer

* Developed Client - Server Architecture with python scripts to automate shutdown of 80+ PCs across 3 Labs.
* Monitored development of GUI to selectively Turn Off individual/group of PCs

**IT AND TECHNICAL SKILLS**

**Programming Skills:** *C, Python, C++, Java (certified, trained), HTML, Embedded C coding, web programming (applets)*

**Amazon Web Services:** *EC2, VPC, Auto Scaling, ELB, EBS, S3, RDS, Identity and Access Management, CloudWatch*

**Open source tools and Software’s:** *Wireshark, Nmap, Snort, iptables, Ping,* *SNMP, Scilab, LaTeX, OpenSSH, virtualbox*

**Operating systems and servers:** *Ubuntu Linux (Primary OS for 3 years), BackTrack (Live OS), Windows*

**Concepts:** *Iaas, Paas, Saas, TCP/IP protocol stack, OSPF, BGP, MySQL, LAMP, open source software development*

**Interested to explore:** *Dev-Ops tools( Git, Chef, Puppet, Jenkins) and virtualization ( VMware, Xen, KVM)*