VRAJESH PRAJAPATI

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amazon web services | Certified
Solutions Architect - Associate

ACADEMIC CREDENTIALS

Masters in Telecommunications (Management)**, (3.86/4.0)** Expected May 2018
University of Maryland, College Park, MD
Courses: *Cloud Computing (A+), Advanced Linux- Distributed Systems in Virtual Environment, Networks and protocols II Data Structures and Algorithms*

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.
Services: EC2, RDS, ELB, VPC, Network ACLs, Security groups, Route 53, S3, Glacier

EXPERIENCE

Cloud Infrastructure Intern June 2017- August 2017
Charter Communications (Spectrum), Colorado
- Created Network Architecture Diagram of AWS Stage environment containing over 12,000 resources
- Developed Ansible playbook to automate a configuration change.
- Use Trusted Adviser to recommend action items for Cost Optimization, Performance, security and Fault tolerance
- Developed CI/CD pipeline on AWS using Jenkins and BASH scripting for OVP deployment in Stage and Production
- DevOps Tools used: Ansible, Jenkins, SCM using Git, Splunk, JIRA, Atlassian Chalk, Asguard, Docker.

Instructor and Adjunct Resource Person, *Unix System Administrator* June 2015- July 2016
R&D lab, S.P.I.T., Mumbai, India
- Installed and configured basic Apache HTTPD 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

PROJECTS

Performance evaluation on various sorting algorithms Nov 2017
- Implemented Bubble sort, Insertion sort, Count Sort, merge sort and quick sort algorithms in C
- Reported complexity of these algorithms in terms of comparisons and copy operations.

Admission control in a mobile cellular network May 2017
- Single-handedly created a python application to simulate a small geographic area of a mobile cell.
- The application simulated user behavior and performed admission control to maintain required signal quality
- Wrote 450+ lines of original modular code in python.

Implementation of Open Stack based Private Cloud Iaas Dec 2016
- Installed OpenStack service using DevStacks' source script from Git master repository
- Performed network and system level troubleshooting for Operation of various components like Nova, Neutron etc

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

SLab - Development of Smart Labs using Python May 2016
- 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)*
Open source tools and Software's: *Wireshark, Nmap, Snort, iptables, Ping, SNMP, Scilab, LaTeX, OpenSSH, virtualbox*
Routing Protocols: *TCP/IP protocol suite, RIP, BGP, OSPF, IGRP, SNMP*
Concepts: *Configuration Management, Orchestration, version control, CD/CI, LAMP, open source software development, Dev-Ops tools(Git, Chef, Puppet, Jenkins, Docker, Kubernetes) and virtualization (VMware ESXi, vSphere, Xen)*