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SKILLS SUMMARY

Operating Systems	UNIX/Linux, CentOS, Windows
Programming Languages & Scripts	Python, SQL, Power Shell, Bash
Configuration Management Tools	Chef, Puppet, Ansible, and Vagrant
Cloud Technologies	Amazon Web Services (AWS), Microsoft Azure, and GCP
Source Code Management	GIT, Bit Bucket Subversion
Continuous Integration & Build Tools	Jenkins, Chef, Gitlab CI, and MAVEN
Container Services	Docker, and Kubernetes
Monitoring Tools	Nagios
Software Development Life Cycle	Agile, Scrum, Waterfall, and DevOps methodologies
Ticket Tracking Tools	JIRA, and Zendesk
Web Servers	Apache Tomcat, and Nginx
Databases	MySQL, PostgreSQL.
Web Technologies	HTML, JavaScript
Certifications	CCNA, CompTIA A+ , Microsoft Azure

Operating System: **Linus/UNIX – Ubuntu, CentOS, RHEL, Windows**

- OS Installation, System Administration, User, and Package Management.
- General Understanding of Linux/UNIX Internals (System calls, File systems, Processes … etc.)
- Hands-on Experience with Installation and Administering Nginx, Apache Tomcat Webserver for website deployment.
- Well versed in Installation and configuration management of Apache (Ubuntu) and Nginx (CentOS) for Static and Dynamic Web pages, PHP Integration.
- In-Depth Knowledge on writing Automation scripts using Shell, Bash scripting. Link
      (Shell variables, Decision making, test conditions, shell loops, re-directions, and Exit status)
- Developed and automated processes that run daily to check disk usage and perform.
- Backup and restore data using Rsync command over SSH encrypted connection for high security and efficiency.

Cloud Technologies: **AWS, Microsoft Azure, GCP and Website Deployment.**

- Design, Implement and Maintain cloud Orchestration for end-user deployment using AWS EC2.
- Experience in implementing new AWS EC2 Instances and working with EBS and S3 Storage.
- Deploy static website using AWS Amplify. Website: www.chetandesign.net
- Hands-on Experience with Amazon Domain management tool AWS Route 53.
- Expertise in Amazon S3 bucket system to store Source Code and Backup of end-user systems.
- Integrating GitHub Repository to AWS Amplify services to push remote updates.
- Develop, Code, and Test website using HTML 5.0, PHP, JavaScript, CSS, and Microsoft VScode.

Source Code Management Tools: **Git, Subversion, and Perforce**

- Define, Setup/Configure, Deploy and Maintain source code and Binary repositories (GIT, Artifactory)
- Experience in branching, tagging and maintaining the version across the environments using SCM tools like Git, GitLab, GitHub and Subversion (SVN) on Linux and Windows platforms.
- Hands-on experience on managing live source code branches using strategy that minimize merge errors.

Automation Build Tools and Continuous Integration
Jenkins, Chef, GitLab CI and MAVEN

- Extensive working knowledge on Installing Administering, Configuring using build Automation Scripting with MAVEN.
- Deployed several websites on Apache Tomcat Server/Nginx
- Hands-on experience in setting up Jenkins as part of Continuous Development and Deployment process to implement build Automation.
- Experience in administering Jenkins in Integration with Git, MAVEN, Apache Tomcat.

Container Services
Docker, and Kubernetes

- Created a Continuous delivery process to include support for building docker images and publish into a private repository (Docker Hub).
- Deploying and maintaining production environment using AWS EC2 instances using docker.
- Virtualized the servers using docker foe test, and dev environments.
- Container management using Docker by docker files and setup the build automation.
- Building/Maintaining docker container cluster managed by Kubernetes, Linux, Bash, GIT, Docker on GCP.
- Utilization of Kubernetes and docker for runtime environment of the CI/CD system to build, test, and deploy.

Database
MySQL, PostgreSQL

- Installed/Configured MySQL on Linux/UNIX and Windows environment.
- Hands-on Experience in MySQL database backup, recovery, replication and Synchronization strategies.
- Proficient in developing and maintaining of functions, procedures, triggers, indexes using MySQL database programming language.
- Automated data import scripts using shell scripting, MySQL and regular expressions.
- Implement a SQL database for Home Inventory App with Knex.js, Docker and PostgreSQL.
  - [GitHub Link](#) – Home Inventory Management Database

Technical Support:
Jira Ticketing System, Microsoft Active Directory

- Configuring and Maintaining Server hardware, OS upgrades, software driver, hardware firmware upgrades (BIOS upgrade), and Active Directory Services on windows server 2003/2008 R2/2012 in a multi-Domain/Forest Infrastructures.
- Creating and managing Active Directory Organizational Units (OU), Group Policy Objects (GPO), and creating user accounts for new hires, providing user permissions, configuring GPO's.
- Managing, Installing and troubleshooting Microsoft windows active directory, DNS, DHCP services, Network Drives on windows server 2003/2008 and 2012 platforms.
- Hands-on experience in creating new network drives and mapping them to the end-user.
- Create Automation scripts for performing On-boarding/off-boarding of new and terminated employees.
- Automation Scripts such as: • Script to send Last Full Backup report daily. [Link](#)
  - • Script to reset windows and remove the Latest update. [Link](#)
  - • Script to get RAM Configuration for local or Remote machine. [Link](#).

Academic Projects:

Setup/Configure Network-Attached Storage System with Encryption on ZFS Volumes
- Installation of FreeNAS 11.3 and TrueNAS Core.
- Create User management, Groups, Creation of different Pools, Drives for Users.
- Mapping Network drives to Personal systems and used it for backup, replication of file system to a remote ZFS file system.
- Configure Software RAID with RAID-Z for data integrity in case any physical Hard disk fails.

Linux Web Server Deployment:
- Used Linux to build a cluster of 2 webservers for high availability and ensure service is never down in enterprise environment
- Build webserver using Apache and build a reverse proxy server using Nginx to provide high performance and security.
- Install proxy or caching server using squid.
- Create RDBMS database system using MySQL or MariaDB, NoSQL database system using MongoDB, and in-memory database system or portable database system using SQLite package.

Docker Containerization:
- Building images of MongoDB, Nodejs and Nginx to use in blog application.
- Created Docker Swarm the clustering platform of docker and made components can connect to each other in swarm.
- Use of Docker stack to automate the process of creating Docker Swarm using a YAML file.
- Added resiliency to the Swarm by two manager nodes and 2 worker nodes.
- Created a service registry component, where all images are going to be stored locally.
- Handling Docker container storage by creating shared volumes.
- Use Ansible as a configuration management tool to automate Swarm creation on a bare metal machine.

Static Website Deployment on AWS | Website – www.chetandesign.net
- Design, Code and Test HTML/CSS files for website.
- Deploy static website on AWS Amplify Services
- Route 53 for Domain Name registration.
- Git/GitHub to push remote Updates.
- Export code to AWS S3 Bucket system for backup.

Setting up CI-CD Pipeline for E-Commerce Application
- Setting up a Git & GitHub Repository.
- Building Jenkins Pipeline and writing jenkinsfile.
- Building & Deploying apps via Docker Container.
- Pushing Docker Images to Docker Hub.

Real-time multimedia communications over internet

- Setup Call routing and signaling protocol
- Traffic Policing, shaping and engineering
- Design traffic policing/shaping and traffic engineering on network.
- Congestion management by using Queuing methods
- Configuration of priority Queuing on a network
- Configuring Weighted Round Robin Queuing as Custom Queuing

Chetan Gandhavadi

has successfully completed the
requirements to be recognized as

VERSION 2020

CompTIA.

A+

CERTIFIED · CE

CERTIFIED

COMP001021755345
CANDIDATE ID
November 06, 2020
CERTIFICATION DATE
November 06, 2020
RENEWAL DATE
November 06, 2023
EXPIRATION DATE

TODD THIBODEAUX, PRESIDENT & CEO

Code: FVQ6JTVPQHBE1PSR
Verify at: http://verify.CompTIA.org

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CISCO.

Cisco Certifications

Chetan Gandhavadi

has successfully completed the Cisco certification exam requirements and is recognized as a

Cisco Certified Network Associate

CISCO
CERTIFIED
CCNA

Date Certified	May 26, 2020
Valid Through	May 26, 2023
Cisco ID No.	CSCO13537135

Chuck Robbins
Chief Executive Officer
Cisco Systems, Inc.

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