UTSAV CHAUDHARY

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TECHNICAL SKILLS

Operating Systems Windows: Linux distributions (CentOS, Ubuntu, RedHat, Debian)
Programming Languages: Python, Java, .NET, C++, C#, SQL, JSON, HTML, CSS
Automation and Build Tools: Ansible, Jenkins, Terraform, Puppet, Chef, ANT, Maven
Version Control Tools: GIT, GitHub, Bitbucket, GitLab
Databases: Oracle, MongoDB, MySQL, CosmosDB, PostgreSQL, Firebase, Cassandra
Scripting: Python, Shell, PowerShell, Ruby, JavaScript, Jinja
Methodologies: Agile, Scrum, Test-driven Approach
Tools: Docker, Kubernetes, Jira, Shell, Bash, Automation, NodeJS, jQuery, Django, Flask, XML, Nginx, Apache HTTP
SDKs: ReactNative, Unity3D, Android Studio, Arduino

PROFESSIONAL SUMMARY

▸ Migrated on-premises applications to Kubernetes, containerizing them using Docker, and optimized resource allocation and management using Kubernetes orchestration.
▸ Deployed and managed containerized applications using Azure Kubernetes Service (AKS), leveraging its scaling and monitoring capabilities to ensure high availability and performance.
▸ Automated build processes using ANT and Maven for J2EE applications, and MSBuild for .NET applications, ensuring consistent and efficient build procedures across different platforms.
▸ Integrated unit and integration testing into build pipelines using tools such as JUnit and NUnit, ensuring comprehensive test coverage and early detection of issues.
▸ Implemented code quality and vulnerability scanning tools, such as SonarQube and WhiteSource, to enhance code security and maintain high-quality code standards.
▸ Managed source control using Azure Repos, ensuring version control, collaboration, and code integrity across multiple development teams.
▸ Stored and managed build artifacts in Azure Container Registry (ACR) and Azure Artifacts, implementing tagging and versioning to ensure traceability and easy retrieval.
▸ Conducted code and build testing across different environments, including Dev, Test, UAT, and Prod, to ensure reliability and consistency in deployments.
▸ Configured Role-Based Access Control (RBAC) and authentication controls for Azure servers and file systems, ensuring secure access and compliance with security policies.
▸ Implemented load balancers, internal communications, and public/private IP configurations using Azure services such as Azure Load Balancer, Azure Application Gateway, and Azure Virtual Network (VNet).
▸ Provisioned infrastructure using Terraform, including creating VNets for seamless communication, ensuring reproducibility and scalability of the infrastructure.
▸ Utilized Bicep and ARM Templates alongside Terraform for application infrastructure deployment, facilitating efficient and repeatable infrastructure provisioning.
▸ Tested containers on Azure Instances during development, creating pipelines for the Dev team to streamline the deployment process and ensure consistency in the development environment.
▸ Containerized applications with Docker, stored images in Azure Container Registry (ACR), performed security scans using tools like Aqua Security, and enforced RBAC policies for secure access to artifacts.
▸ Managed Terraform state backend in Azure Blob Storage, implementing versioning, RBAC, and state locking to ensure consistency and prevent conflicts during infrastructure deployments.
▸ Configured AKS clusters for application deployment, including load balancing, scaling, and health checks, ensuring high availability and performance of deployed applications.
▸ Implemented Azure Log Analytics and Azure Monitor for infrastructure and application monitoring, analyzing performance metrics, identifying bottlenecks, and optimizing system performance.
▸ Created performance charts in Azure Monitor, set up alerts for critical metrics, and configured autoscaling and patching for AKS-managed servers to maintain optimal performance and security.

▸ Developed CI/CD pipelines using Azure DevOps, integrating build, test, and deployment processes to ensure efficient and secure application delivery.
▸ Collaborated with development teams to streamline DevOps practices, implementing best practices for continuous integration and continuous delivery, and ensuring efficient and secure application delivery.

PROFESSIONAL EXPERIENCE

Client: TransAmerica (Remote, USA) | Azure/Cloud DevOps Engineer
RESPONSIBILITIES: ***Jan 2023 - Present***

▸ Successfully transitioned all **on-premises applications** to **Azure Cloud**, leveraging Azure's scalable infrastructure.
▸ Migrated data to **Azure Storage** solutions, including **Blob Storage** and Azure **SQL Database**, for **scalable** and **secure** data management, ensuring seamless access via Azure services and cloud-hosted applications.
▸ **Developed** CI/CD **Pipelines** for Hosting **internal** applications on **Azure DevOps** while maintaining **critical data on-premises**, leveraging **hybrid** connectivity solutions such as **Azure VPN and ExpressRoute** to securely access on-premises data through Azure services.
▸ Implemented and managed Azure resources spanning multiple providers including **Compute**, **Network**, and **Application Gateway**, utilizing **Terraform** and **Bicep Templates**, also had experience with **ARM** templates. Established and sustained Dev, Test, UAT, and Prod environments through infrastructure as code methodologies, employing **Terraform scripting** and **Bicep Templates**.
▸ Involved in writing **Ansible playbooks** to push out **new/confirm** configuration of the deployed **infrastructure**. Defined tasks to Ansible modules for roles and playbooks and **run** it on **DevOps Pipeline** for all the **hosts** to be updated.
▸ Developed and maintained custom **Python**, **Bash**, **Shell**, and **PowerShell** scripts to automate **CI/CD pipelines**, enabling seamless **integration** and **deployment** processes across **Azure DevOps**, enhancing **build, test, and release** efficiency. Using **CRON Jobs** to **Schedule jobs** on the **master** node.
▸ Utilized **Python** and **Shell** scripting to **automate** infrastructure **provisioning** and **configuration** with **Terraform** and **Ansible**, and orchestrated containerized applications using **Docker** and **Kubernetes**, ensuring consistent, scalable, and reliable **environments**.
▸ Utilized **Docker** to **containerize applications**, enabling **portability** and **scalability** across different environments. Configured Docker images to encapsulate application code, dependencies, and configurations, and stored them in **Azure Container Registry**, facilitating **version control** and **artifact management**.
▸ **Integrated** Docker **images** into CI/CD **pipelines** in Azure DevOps, **tagging artifacts** for traceability and seamless deployment to **Azure Kubernetes Service** AKS, optimizing the software delivery lifecycle **SDLC**.
▸ Utilized **Helm** charts to efficiently deploy and manage **Kubernetes** applications on **Azure Kubernetes Service** (AKS), leveraging **Docker** to **containerize** our applications and **Azure Container Registry** (ACR) to **securely store and manage** Docker **images**.
▸ Integrated **SonarQube**, **Snyk**, and **Checkmarx** into the CI/CD **pipeline** to continuously monitor and improve code **quality and security**, reducing **vulnerabilities** and ensuring compliance.
▸ Assisted the migration from **JIRA** & **Kanban** Boards to **Azure Boards** to view stories, tasks, bugs, and features. **Managed** the **concurrent** usage of **both systems** during the **transition phase**, ensuring **minimal disruption** to ongoing **projects** and **workflows**.
▸ Integrated **unit tests, integration tests, and UI tests** with **Selenium** into the CI/CD pipelines using **Azure DevOps**, ensuring comprehensive testing coverage and automated **Report Generation**.
▸ Involved in **Designing, Configuring and Deploying** Azure Virtual Networks **VNets**, Subnets, Service and Private Endpoints, DNS Servers, Address space, Security Policies and VNet Peering's using **Terraform**.
▸ Created and managed **Azure AD tenants**, **manage users and groups** in Azure AD, and configure application **integration** with Azure **Default Directory**. Configured Multi-Factor authentication **MFA** and aligned single sign-on **SSO**.
▸ Assisted in deploying Azure **Monitor** and Azure **Log Analytics** for real-time **monitoring and logging** of cloud resources, enhancing visibility and operational efficiency.
▸ Implemented **Azure Key Vault** to securely manage **secrets**, **credentials**, and **configurations**, ensuring data **security and compliance**. Integrated access to Key Vault and **utilized** stored **credentials** within the **pipeline** for enhanced **security** and **seamless deployment** processes.
▸ Established a **branching** strategy using **Git** and **Azure Repos**, creating separate branches for Dev, Test, UAT, and Production **environments**.
▸ Set up **manual validation** steps in the CI/CD **pipeline** for **critical deployments**, **ensuring** thorough **review** and **approval** before production release.

▸ Integrated **security tools** like **OWASP ZAP and Veracode** into the CI/CD pipeline for continuous security scanning and vulnerability assessment.
▸ **Created and maintained** detailed **documentation** of **migration** processes, CI/CD **pipeline** configurations, and **infrastructure** setups to facilitate **knowledge transfer and future maintenance**.
▸ Followed **Agile** methodologies to measure the overall workflow of projects and attended daily stand-up meetings.

Softline Solutions PVT. LTD. (Bangalore, IN) | Cloud DevOps Engineer
RESPONSIBILITIES: ***Jul 2020 - Jul 2022***

▸ Designed cloud native solutions with **Azure PAAS** services leveraging **Azure storage, Azure SQL**. Designed **event-driven** architectures using serverless **functions**, orchestrated and managed through **GitHub Actions**.
▸ Designed and implemented **CI/CD pipelines** using **GitHub Actions**, integrating **code testing** with tools such as **pytest** and **unittest** for **Python**, and security **scanning** with **CodeQL**.
▸ Orchestrated **infrastructure deployment** using both **Terraform** and **Bicep templates**, ensuring infrastructure as code principles and efficient **resource management**.
▸ Used **Staged Deployment** strategy, initially deploying **applications** across **two** separate **pools of servers** for **resilience** and **testing** purposes. Incorporated **Azure Monitor** for real-time **monitoring and diagnostics**, along with **Prometheus** and **Grafana** for advanced **analytics and visualization**.
▸ Assisted in **Network Traffic** splitting mechanism using **Azure Traffic Manager** and **Azure Application Gateway**, **directing users** to specific **application versions** based on **predefined rules**.
▸ Managed **Application Deployment** to different server pools based on **Manual Validation** and **Monitoring Insights**, utilizing Azure DevOps for **change management**.
▸ Created and configured **HTTP Triggers** in Azure Functions enabling **Application Insights** for monitoring, debugging, and performing **load testing** on the applications using **Python API** for uploading all the agent logs into **Blob Storage**, with automation through GitHub Actions.
▸ Hosted private Git repositories for source code control. Developed build workflows, additionally utilizing **GitHub Actions** to **enhance automation** capabilities, **enabling parallel** workflows, and **integrating seamlessly** with repositories.
▸ **Containerized** applications using **Docker**, storing images in **Azure Container Registry** (ACR), and deployed them on **Azure Kubernetes Service** (AKS) for container **orchestration**.
▸ Configured AKS with **Horizontal Pod Autoscaler** and **Kubernetes Cluster Autoscaler** for automated **load balancing** and scalability, ensuring **optimal performance** under **varying loads**.
▸ To ensure security, we implemented **Azure Key Vault** to manage secrets and credentials, enforced network policies, and enabled role-based access control (RBAC) within our Kubernetes environment.
▸ **Created and managed** organization's infrastructure within Azure using **Terraform** and **Ansible**, automated **deployment** processes with **GitHub Actions**.
▸ Optimized hosting costs by leveraging **Azure Reserved Instances** and Azure Hybrid Benefit, maximizing utilization of Azure services while minimizing expenses.
▸ Wrote **Ansible playbooks**, Roles and followed **best practices** to utilize **Ansible Handlers** with multiple tasks to **trigger** various **handlers** and to decouple handlers from their names.
▸ Worked on a **Proof of Concept** (POC) initiative focused on **modernizing CI/CD** processes, leveraging **GitHub Actions Pipelines** and **Tekton** to streamline software **delivery workflows**. Implemented and fine-tuned automation pipelines, integrating advanced features to enhance efficiency, scalability, and reliability across the development lifecycle.
▸ Involve in daily **stand-up** meetings, sprint **backlog** and sprint **retrospective** for **Agile Scrum** Process.

Compendious Medialabs Pvt. Ltd. (Mumbai, IN) | Ansible/Cloud Engineer (Intern)
RESPONSIBILITIES: ***Dec 2019 - June 2020***

▸ Developed custom **Ansible Modules** in **Python** to enhance functionality and automate tasks within the infrastructure.
▸ Worked on in-line scripts automation for **Ansible** and **Terraform**, using Bash, Python, Shell, and Powershell.
▸ **Developed** and maintained **scripts** to **automate** repetitive **tasks**, **enhancing productivity** and efficiency across the team using **Python, Bash, and PowerShell**.
▸ Used **Ansible** to automate **Configuration Management** tasks, ensuring **consistency**, **repeatability** and avoiding **configuration drift** across environments.
▸ Collaborated with fellow DevOps engineers to **support** the **development** and **maintenance** of CI/CD **pipelines**.
▸ Tested **Jenkins** for CI and automated scheduled data **scraping** and **uploading** to databases, ensuring **timely** and **accurate data** updates.
▸ Assisted in the deployment and monitoring of automated solutions, **ensuring smooth** operation and **quick issue** resolution.

▸ Knowledge and hands-on experience with popular DevOps tools such as Docker, Kubernetes, Jenkins, Ansible, and Terraform.
▸ Experience with Infrastructure as Code (IaC) tools, particularly **Azure Resource Manager** (ARM) templates and Terraform and Ansible for automating configuration management and deployment tasks.
▸ Strong **communication skills** for effective interaction with various stakeholders, including developers, operations teams, and management.
▸ Gained experience in **critical thinking** and **problem-solving** abilities, essential for **troubleshooting** issues and **optimizing** processes.

Compendious Medialabs Pvt. Ltd. (Mumbai, IN) | Python Engineer (Intern)
RESPONSIBILITIES: ***May 2019 - Dec 2019***

▸ Developed **Python scripts** to automate tasks using APIs, including creation and utilization, and implemented **web scraping** and **testing** with **Selenium**.
▸ Utilized **Python libraries** such as **requests** for efficient handling of HTTP requests for **data collection**.
▸ Used libraries like **Pandas, NumPy** for **sorting and filtering** data and used **Databases** for **storing, and retrieving** data.
▸ Leveraged **Redis** for caching and optimizing data retrieval processes, enhancing system performance and efficiency.
▸ Integrated **RSS** feed handling into Python scripts, enabling streamlined **data processing** and utilization for various applications.
▸ Utilized **Azure services** for **virtual machines, databases**, and other **infrastructure** requirements, ensuring scalable and reliable automation solutions.
▸ Implemented end-to-end automation **workflows**, ensuring seamless **execution of tasks** from data **acquisition** to **storage** and **processing**.
▸ Contributed to the development of **internal tools** to streamline **repetitive tasks**, **increasing** team **productivity** and **efficiency**.

EDUCATION

Binghamton University (SUNY) ***Aug 2022 - Dec 2023***
Master of Science in Computer Science **GPA: 3.44/4**

Universal College of Engineering ***Jul 2016 - Jun 2020***
Bachelor's in Computer Engineering **GPA: 8.09/10**