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, Azure Repos, AWS CodeCommit
Databases :	Oracle, MongoDB, MySQL, CosmosDB, PostgreSQL, Firebase, Cassandra
Scripting :	Python, Shell, PowerShell, Ruby, JavaScript, Jinja, Groovy, YAML
Methodologies :	Agile, Scrum, Test-driven Approach
Tools :	Azure, AWS, Docker, Kubernetes, Jira, Shell, Bash, Automation, NodeJS, jQuery, Django, Flask, XML, Nginx, Apache HTTP
SDKs :	ReactNative, Unity3D, Android Studio, Arduino

PROFESSIONAL SUMMARY :

‣ Experienced DevOps / Cloud Engineer with **4+ years** of hands-on **DevOps** experience specializing in **AWS** and **Azure.**

‣ Developed robust **CI/CD pipelines** on **Jenkins** integrating **Terraform** and AWS **CloudFormation** templates to manage AWS resources securely. Implemented **AWS VPN** and **Direct Connect** for secure connectivity, ensuring smooth deployment across diverse environments.

‣ Focused on **triggers** that automatically invoke build pipelines for **Continuous Integration** of source code changes and release pipelines for **Continuous Deployment**

‣ Utilized **Docker** for containerizing applications and managing Docker images through **Azure Container Registry** (ACR) and **Amazon Elastic Container Registry** (ECR), deployed on **Azure AKS** and **AWS EKS** with Horizontal Pod Autoscaler and **Kubernetes Cluster** Autoscaler for automated scaling and load balancing.

‣ Assisted in migrating monolithic applications to a microservices architecture using Docker and Kubernetes on **Azure Kubernetes Service** (AKS), leveraging **Azure Container Registry** (ACR) for artifact management and ensuring scalability and resilience.

‣ Orchestrated CI/CD pipelines using **Jenkins** for **Azure** and **AWS** environments, integrating security tools like **SonarQube**, **Snyk**, and **OWASP ZAP** for continuous monitoring and compliance, ensuring efficient software delivery and quality assurance.

‣ Skilled in creating and deploying **artifacts** for **NuGet** packages, **Docker images**, applications, **Maven**, and **npm**. Experienced in storing these artifacts using **Azure Artifacts, GitHub Packages**, and **Docker Hub**.

‣ Implemented infrastructure deployment and management across **AWS** using **Terraform** and AWS **CloudFormation**, optimizing costs with AWS **Reserved Instances** and Savings Plans, and integrating AWS services like **Route 53** and **Application Load Balancer** for resilient application deployment.

‣ Proficient in using **Python, Ruby, Perl, Shell, Bash**, and **PowerShell**, for automation scripting, creating efficient and reliable scripts to automate various tasks and streamline workflows in development and operational environments.

‣ Implemented network policies in **Azure Kubernetes Service** (AKS) and **Amazon EKS** to control traffic flow and enforce security rules between **pods** and **external** services, ensuring secure communication and compliance with organizational security policies.

‣ Experienced in building **testing pipelines** and integrating **Static Code Analysis**, **Load** Testing**, Automated Testing** and **Compatibility** Testing

‣ Utilized Kubernetes-native tools and RBAC to manage access control and enhance network segmentation within the cluster environment.

‣ Streamlined data collection processes by integrating **Python** scripts with **SQL** database for efficient data storage and retrieval. Utilized **pandas** and **NumPy** for data cleaning and transformation, and employed **Cron** Jobs to automate regular **scraping** tasks, ensuring timely and accurate data updates

‣ Managed project workflows effectively using **Agile** methodologies in Azure DevOps, including sprint planning, backlog management, and retrospective meetings, ensuring alignment with project goals and timelines.

‣ Implemented **Azure Monitor**, Azure **Log Analytics**, Amazon **CloudWatch**, **Prometheus**, and **Grafana** for real-time monitoring, diagnostics, and advanced analytics across Azure and AWS environments, ensuring operational efficiency and proactive issue resolution.
‣ Developed **Azure DevOps** and **Jenkins** workflows for automated **report generation** using **Prometheus** and **Grafana**, scheduling reports to be sent automatically via **SMTP** for continuous monitoring and transparency.
‣ Experienced with version control systems such as **GIT**, **Subversion**, **Azure Repos**, and **AWS CodeCommit**. Skilled in building project branches, merge and release them into various environments

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PROFESSIONAL EXPERIENCE:

Client: TransAmerica (Remote, USA) | AWS/Cloud DevOps Engineer
RESPONSIBILITIES Jan 2023 - Present
‣ Migrated legacy monolithic J2EE and .NET applications to **AWS Cloud** using microservices architecture, deploying them on **Kubernetes** (EKS) for improved scalability, resilience, and manageability. Leveraged **Docker** to containerize applications and used Kubernetes manifests and YAML files for efficient deployment and management on **Amazon Elastic Kubernetes Service** (EKS).
‣ Developed **CI/CD Pipelines** to implement and manage **AWS resources** spanning multiple providers including Compute**,** Network**,** and Application Gateway, utilizing **Terraform** and AWS **CloudFormation**. Established and sustained Dev, Test, UAT, and Prod environments through infrastructure as code methodologies, employing Terraform scripting and AWS CloudFormation templates.
‣ 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 **Amazon Elastic Container Registry** (ECR), facilitating **version control** and **artifact** management.
‣ Assisted in deploying and managing secure AWS network architectures, including Virtual Private Clouds (**VPCs**) and **subnets**, applying IAM roles and **Security Groups** to control traffic and access, and developed and **implemented pipelines** to automate the application of these configurations on newly created **infrastructure**.
‣ Assisted in writing **Ansible playbooks** to push out new/confirm the configuration of the deployed infrastructure. Defined tasks to Ansible modules for roles and playbooks and ran them on the **Jenkins Pipeline** for all the hosts to be updated.
‣ Created testing **environments** for the development team using **AWS Fargate**, setting up CI/CD **pipelines** in a **Dev** environment to allow developers to test their code and integrations seamlessly within the pipeline.
‣ Developed and maintained custom **Python, Bash, Shell,** and **PowerShell** scripts to automate CI/CD pipelines, enabling seamless integration and deployment processes across **Jenkins**, enhancing build, test, and release efficiency. Using **CRON** Jobs to schedule jobs on the **master node**.
‣ Implemented **AWS Secrets Manager** and **AWS Key Management Service** (KMS) to securely manage secrets, credentials, and configurations, ensuring data security and compliance. Integrated access to Secrets Manager and utilized stored credentials within the pipeline for enhanced security and seamless deployment processes.
‣ 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.
‣ Integrated Docker images into CI/CD pipelines in **Jenkins**, **tagging artifacts** for traceability and seamless deployment to **Amazon Elastic Kubernetes Service** (EKS), optimizing the software delivery lifecycle (**SDLC**).
‣ Utilized Kubernetes manifests to efficiently deploy and manage Kubernetes applications on Amazon **Elastic Kubernetes Service** (EKS), leveraging Docker to containerize applications and Amazon **Elastic Container Registry** (ECR) 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.
‣ Integrated **unit** tests, **integration** tests, and **UI** tests with **Selenium** into the CI/CD pipelines using **Jenkins**, ensuring comprehensive testing coverage and **automated** report generation.
‣ Monitored and audited AWS environments for compliance with security policies and IAM configurations, using tools like AWS **Security Hub** and AWS **Config**.
‣ Assisted in deploying **Prometheus** and **Grafana** for real-time monitoring and logging of cloud resources, enhancing visibility and operational efficiency.
‣ Established a branching strategy using **GitHub/GitLab**, 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 for continuous security scanning and vulnerability.

‣ 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** services, leveraging **Azure BLOB Storage** and **Azure SQL**. Designed event-driven architectures using serverless functions, orchestrated and managed through Azure **DevOps Pipelines**.
‣ Designed and implemented CI/CD pipelines using Azure Pipelines, integrating code testing with tools such as **pytest** and **unit test** for Python, and security scanning with **Checkmarx**, **SonarQube**.
‣ 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**, **Log Analytics**, and **Application Insights** for real-time monitoring and diagnostics.
‣ Assisted in implementing a 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 in different environments.
‣ Created and configured **HTTP** triggers in **Azure Functions**, enabling Application Insights for monitoring, debugging, and performing load testing on the applications. Used **Python API** for uploading all the agent logs into **Blob** Storage, with automation through Azure Pipelines.
‣ Hosted code repositories using **Azure Repos** for source code control. Developed build workflows, additionally utilizing Azure Pipelines 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.
‣ Implemented **Azure Key Vault** to manage secrets and credentials, enforced network policies, and enabled role-based access control (**RBAC**) within the Kubernetes environment to ensure security.
‣ Created and managed the organization's infrastructure within Azure using **Terraform** and **Ansible**, automating deployment processes with **Azure Pipelines**.
‣ Assisted in Ansible **playbooks** and roles, following best practices to utilize Ansible handlers with multiple tasks to **trigger** various handlers and to decouple **handlers** from their names.
‣ Involved in daily **stand-up** meetings, sprint backlog, and sprint retrospective for Agile Scrum process, utilizing **Azure Boards** for project tracking and management.

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 script 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, and 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**
