UTSAV CHAUDHARY

utsav28.devops@gmail.com +1 (281)-9680-345 /in/utsav-chaudhary-30989030a/

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, GCP Cloud Source
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, GCP, 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 **Azure** and **GCP**.

‣ Developed comprehensive **CI/CD pipelines** on **Azure DevOps** integrating **Terraform**, **Bicep** Templates, and **ARM** templates to manage Azure resources securely via **Azure VPN** and **ExpressRoute**, ensuring seamless deployment across multiple 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 **Google Container Registry (GCR)**, deployed on **Azure AKS** and **Google Kubernetes Engine (GKE)** 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 **GCP** 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**.

‣ 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 **Google KS** 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**, Google **Cloud Monitoring, Logging**, **Prometheus**, and **Grafana** for real-time monitoring, diagnostics, and advanced analytics across Azure and GCP 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 **GCP Cloud Source Repositories**. Skilled in building project branches, merge and release them into various environments

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PROFESSIONAL EXPERIENCE:

Client: TransAmerica (Remote, USA) | Google/Cloud DevOps Engineer
RESPONSIBILITIES Jan 2023 - Present
‣ Migrated legacy monolithic J2EE and .NET applications to **Google Cloud** using microservices architecture, deploying them on **Kubernetes** (K8s) for improved scalability, resilience, and manageability. Created **GitHub Actions** workflows to **containerize** applications and used Kubernetes manifests and YAML files for efficient deployment, management on Google Kubernetes Engine.
‣ Developed **CICD Pipelines** in **GitHub Actions** to implement and manage Google resources spanning multiple providers including Compute, Network, and Application Gateway, utilizing **Terraform** and **Bicep Templates**. They established and sustained Dev, Test, UAT, and Prod environments through infrastructure as code methodologies.
‣ 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 **Google Container Registry**, facilitating version control and artifact management.
‣ Assisted in deploying and managing secure Google network architectures, including Virtual Private Cloud (VPC) networks and subnets, applying **RBAC** and network security groups (**NSGs**) to control traffic and access and developed and implemented **GitHub Actions workflows** 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 **GitHub Actions workflows** for all the hosts to be updated.
‣ Created testing **environments** for the development team using **Google Container Instances**, 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 **GitHub Actions** DevOps, enhancing build, test, and release efficiency. Using **CRON** Jobs to schedule jobs on the master node.
‣ Implemented **Google Cloud Secret Manager** to securely manage secrets, credentials, and configurations securely, ensuring data security and compliance. Integrated access to Key Vault 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.
‣ Utilized K8s manifests to efficiently deploy and manage Kubernetes applications on Google Kubernetes Engine (**GKE**), leveraging Docker to containerize our applications and Google Container Registry (**GCR**) to securely store and manage Docker images.
‣ Integrated Docker **images** into CI/CD pipelines in GitHub Workflows, **tagging artifacts** for traceability and seamless deployment to Google Kubernetes Engine (**GKE**), optimizing the software delivery lifecycle (**SDLC**).
‣ 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 **GitHub Actions DevOps**, ensuring comprehensive testing coverage and automated report generation.
‣ Assisted in deploying **Google Cloud's Monitoring** and **Logging services** for real-time monitoring and logging of cloud resources, enhancing visibility and operational efficiency.
‣ Established a branching strategy using **Git** and **Google Cloud Source Repositories**, 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** 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**
