



# 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

**Databases :** Oracle, MongoDB, MySQL, CosmosDB, PostgreSQL, Firebase, Cassandra

**Scripting :** Python, Shell, PowerShell, Ruby, JavaScript, Jinja, Groovy, YAML

**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 :

- Experienced DevOps / Cloud Engineer with **4+ years** of hands-on experience specializing in **Azure** and **~3 years** of **Software Development (.NET, Python, Java)**.
- Worked on migrating on-prem infrastructure and application to Azure and adopt CI/CD using Azure DevOps. Set up **Azure devops CI/CD** release and validation pipelines
- Experience with **building Azure DevOps CI/CD Workflows** to automate **Creation** and **Configuration** of **Azure Resources** using **Bicep templates**, **Terraform** scripts and **Azure Resource Manager (ARM)** in **all environments** for **creating** Resource Groups, Virtual Networks, Subnets, Virtual Machines, Blob Storage, Azure Active Directory, Azure AD Connect, **Application Gateway** and **Azure Boards**, **Azure Test Plan** resources
- Designed and implemented **CI/CD pipelines** for **C# and .NET** applications using tools such as **Azure DevOps**, **GitHub Actions** and **GitLab CI**, ensuring rapid and reliable deployment of software updates.
- Created and consumed **RESTful APIs** for seamless integration **with third-party services and applications**.
- Assisted in Architecture and development of **microservices** using **.NET Core**, enhancing modularity and maintainability.
- Automated **build, test, and deployment processes** for **.NET, Java, Python, NodeJS** applications, reducing manual effort and increasing **deployment frequency**.
- Integrated code quality and security scanning tools (e.g., **SonarQube**, **WhiteSource**) into **CI/CD pipelines**, ensuring high standards for **code quality and security**.
- Deployed and managed **application monitoring and logging** solutions to track performance and troubleshoot issues in .NET, Web and Microservices applications.
- Expertise in defining **Azure Pipelines** workflows for **provisioning** application **resources**, managing **secrets** and **environment variables** securely, and orchestrating complex deployment pipelines. Utilized **Azure Key Vault**, **HashiCorp Vault**, **Terraform**, **Ansible**, **Docker**, and **Kubernetes** for seamless infrastructure **management** and **deployment** automation
- 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**. Streamline **Build Process** to ensure robust **version control** and **traceability** across diverse development environments
- Experienced in building testing pipeline and integrating **Static Code Analysis**, **Load Testing**, **Automated Testing** and **Compatibility Testing** for **.NET Applications**.
- Worked on **monitoring** and **optimizing** Azure Pipelines for performance, resource utilization, and cost efficiency, utilizing built-in metrics and logging feature with **Marketplace integrations**
- Proficient in invoking **HTTP trigger** functions with HTTP request and build serverless APIs. Worked with **Postman API** testing tool to call HTTP triggers and performed load testing on the applications using Azure DevOps Services
- Skilled in integrating **Azure DevOps** with **Docker containers** using Azure pipelines to orchestrate **microservices** builds and deployments to **Azure Kubernetes Service (AKS)**

- › Designed and implemented **web scrapers** using **Selenium** to extract and process large volumes of data from various **dynamic** and **static websites**. Ensured robustness by incorporating **error handling, retries, and logging mechanisms** to manage network issues and **site structure changes** effectively
- › Proficient in leveraging reusable **Terraform templates/modules** for provisioning and managing Azure infrastructure as code (IaC) to establish **Dev, Test, UAT, and production** environments through **configuration** files. Utilized **Azure Storage** to store **Terraform state** files, ensuring comprehensive tracking of all environment changes
- › Experienced with version control systems such as **GIT, Subversion, Azure Repos**. Utilized GitBash tool to clone the private and public repositories. Skilled in building project branches, merge and release them into various environments
- › Experience in scripting languages like **Python, Ruby, Perl, Shell, Bash** and familiar with **storage, Networking, PowerShell** commands. Experienced in creating automated **PowerShell** Scripts for **web-app deployment**
- › Experience in working with **Agile** methodologies and **Scrum** practices. Handled daily stand-up calls to measure the team performance and manage the work.

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## **PROFESSIONAL EXPERIENCE:**

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### **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**.
- › Utilized advanced **debugging tools** and techniques to identify and fix bugs in both development and production environments
- › Conducted thorough **root cause analysis** of software defects, implementing long-term solutions to prevent **recurrence**.
- › Collaborated with **cross-functional** teams to troubleshoot and resolve **integration and deployment issues**, enhancing overall system stability.
- › 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**.+

- 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.

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## **Softline Solutions PVT. LTD. (Bangalore, IN) | DevOps / .NET Developer**

### **RESPONSIBILITIES**

Jul 2020 - Jul 2022

- Designed cloud native solutions with **Azure** services leveraging **Azure storage, Azure SQL**. Designed **event-driven** architectures using serverless **functions**, orchestrated and managed through **Azure DevOps Pipeline**.
- Orchestrated **infrastructure deployment** using both **Terraform** and **Bicep templates**, ensuring infrastructure as code principles and efficient **resource management**.
- Developed and maintained **.NET** applications using **ASP.NET Core, C#, and .NET Framework**, ensuring high performance, **scalability, and reliability**.
- Integrated various third-party **APIs** and services, ensuring **seamless communication** and **data exchange** between systems.
- Implemented secure **coding practices** to protect applications against common vulnerabilities such as SQL injection, cross-site scripting (XSS), and cross-site request forgery (CSRF).
- Wrote comprehensive **unit and integration test cases** using frameworks like **xUnit, NUnit, and MSTest** to ensure code quality and reliability.
- Deployed **web applications** on Azure, leveraging Azure **App Service, Azure Functions**, and other Azure services for **hosting, scaling, and monitoring** using **CI/CD Pipelines** in **ADO**.
- Integrated **static and dynamic code** analysis to identify and mitigate **security vulnerabilities** using tools like **SonarQube** and **WhiteSource** in the Azure **Pipeline** for **seamless deployment** of applications..
- Created and managed build and release pipelines for **.NET applications in Azure DevOps**, ensuring smooth and error-free deployment processes.
- Assisten in implementing **load balancing** strategies and **monitored applications** using Azure **Monitor** and **Log Analytics** to track **performance metrics** and **application logs**.
- Conducted **performance tuning and optimization** to enhance application **responsiveness and throughput**.
- 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**.
- Managed **Application Deployment** to different server pools based on **Manual Validation** and **Monitoring Insights**, utilizing Azure DevOps for **change management** in different **Environments**.
- Integrated **third-party** libraries and services into **.NET applications**, extending functionality and improving user experience.
- Hosted private Git repositories for source code control. Developed build workflows, additionally utilizing **Azure DevOps** 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 **ADO**.
- 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.

› Involve in daily **stand-up** meetings, sprint **backlog** and sprint **retrospective** for Agile **Scrum** Process.

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**Compendious Medialabs Pvt. Ltd. (Mumbai, IN) | Software Developer Engineer**

**RESPONSIBILITIES**

June 2019 - July 2020

- › Collaborated with the team to develop a proof of concept (**POC**) for a new **.NET application**, showcasing its feasibility and potential to stakeholders. Utilized **ASP.NET Core, C#, and Entity Framework** for backend development, scalable architecture.
- › Developed and maintained **server-side logic**, implemented data access, and ensured efficient **database interactions**. Integrated various **third-party APIs** and services, ensuring seamless data exchange and system interoperability.
- › Created dynamic and responsive **user interfaces** using **Razor Pages, HTML5, CSS3, and JavaScript**.
- › Implemented **client-side** validation and interactivity using **jQuery and AJAX** to enhance user experience.
- › Worked closely with clients and stakeholders to **gather requirements**, provide **regular updates**, and incorporate **feedback into the development** process.
- › Conducted thorough **unit and integration** testing using **xUnit** to ensure the reliability and performance of the application.
- › Utilized **debugging tools** and techniques to identify and resolve issues, ensuring a smooth **user experience**.
- › Strong **communication skills** for effective interaction with various stakeholders, including developers, operations teams, and management.
- › Gained experience in **critical thinking** and **problem-solving** abilities, for **troubleshooting** issues and **optimizing** processes.

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**underDogs Studios Pvt. Ltd. (Mumbai, IN) | Software Engineer (I)**

**RESPONSIBILITIES**

May 2018 - May 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**.

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**EDUCATION:**

**Binghamton University (SUNY)**  
*Master of Science in Computer Science*

**Aug 2022 - Dec 2023**  
**GPA: 3.44/4**

**Universal College of Engineering**  
*Bachelor's in Computer Engineering*

**Jun 2019**  
**GPA: 8.09/10**

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