

## ZEAL PATEL

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### EDUCATION

Illinois Institute of Technology  
Masters of Computer Science (GPA 3.8)

Aug 2023 – May 2025

### CERTIFICATION

AWS Certified DevOps Engineer – Professional ([Verification Link](#))

Mar 2025 – Mar 2028

### EXPERIENCE

#### Drevol LLC – Software Engineer

Aug 2024 – Dec 2024

- Streamlined **Jenkins**-based **CI/CD** pipelines by integrating dynamic test validation and conditional deployment scripts, increasing release velocity and reducing QA cycles by 35%.
- Designed and implemented scalable automation frameworks using **Selenium**, **PyTest**, and **Postman**, enabling end-to-end UI/API testing across microservices and reducing manual QA effort by 65%.
- Automated regression, smoke, and sanity testing across environments using **Python** and **Shell scripts**, boosting test coverage to 95% and improving product release confidence.
- Led automation strategy for backend **REST API** services, designing **JSON** schema validators and dynamic test case generators to identify breaking changes early in dev cycles.

#### ColoXchange NV Inc. – DevOps Engineer

May 2024 – Aug 2024

- Architected and deployed highly available, cost-optimized infrastructure on **AWS** and **Azure** using **Terraform** and **CloudFormation**, cutting provisioning time by 40% and improving system resilience.
- Containerized applications with **Docker** and orchestrated deployments using **Kubernetes (EKS/AKS)**, supporting zero-downtime rollouts and achieving 99.9% service uptime.
- Integrated **Prometheus**, **CloudWatch**, and **Datadog** for real-time observability, resulting in a 30% reduction in incident response time and improved operational transparency.
- Collaborated cross-functionally with QA, development, and product teams to ensure seamless integration of DevOps processes into agile workflows, boosting release frequency by 3x.

#### Vishag Tech Pvt Ltd – Cloud Engineer

Mar 2019 – May 2023

- Engineered and managed scalable cloud environments across **AWS**, **Azure**, and **GCP**, optimizing compute, storage, and networking resources to reduce operational costs by 25%.
- Migrated legacy monolithic applications to cloud-native architectures using **Lambda**, **API Gateway**, and **RDS**, increasing scalability and reducing deployment friction.
- Enforced cloud security best practices by auditing **IAM roles**, implementing **S3 bucket policies**, and applying **KMS encryption**, leading to 100% compliance with internal audit standards.
- Set up **Secrets Management** using **AWS Secrets Manager**, **Azure Key Vault**, and **Hashi Corp Vault**, ensuring secure handling of credentials and API keys across environments.

### PROJECTS

**Cloud-Based Anomaly Detection System using AI :-** Developed an end-to-end **anomaly detection pipeline** using **AWS Lambda**, **S3**, and **SageMaker** to process infrastructure logs and detect performance anomalies. Trained an **LSTM-based model** on historical metrics to identify latency spikes and CPU/memory irregularities with **92% precision**. Deployed alerts via **SNS** and integrated with **CloudWatch**, reducing incident detection time by **40%** and enabling proactive scaling in production environments.

**Azure VM Deployment Automation :-** Automated VHD image creation and upload to Azure, reducing manual provisioning time by **30%**. Developed a deployment script to instantiate multiple VMs concurrently, improving provisioning speed by **50%**. Integrated the **Geneva Monitoring Agent with an AI-based telemetry analysis tool**, allowing real-time trend recognition and predictive failure alerts, which enhanced operational **efficiency by 40%**.

### SKILLS

- Cloud & DevOps:** AWS, Azure, GCP, Jenkins, DevOps, Terraform, GitHub Actions, Docker, Kubernetes, CI/CD
- Programming & Automation:** Python, Bash, Java, C++, JavaScript
- Monitoring, Security & Databases:** CloudWatch, Splunk, Datadog, Prometheus, ELK, IAM, NSGs, NACLs, KMS, GuardDuty, MongoDB, MySQL, SQL