Zeal Patel
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EDUCATION

Illinois Institute of Technology, Chicago - IL
Master's in Computer Science (**GPA 3.8 / 4.0**)
Aug 2023 – May 2025

CERTIFICATION

AWS Certified DevOps Engineer – Professional (Verification)   Mar 2025 – Mar 2028
Microsoft Certified: Azure AI Engineer Associate   In Process

SKILLS

- **Programming & Automation:** Python, Bash, Java, C++, JavaScript
- **SRE & DevOps:** AWS, Azure, GCP, Jenkins, DevOps, Terraform, GitHub Actions, Docker, Kubernetes, CI/CD, Infrastructure as Code, Load Balancing, Auto Scaling, Disaster Recovery
- **Monitoring, Security & Databases:** CloudWatch, Splunk, Datadog, Prometheus, ELK, IAM, NSGs, NACLs, KMS, Guard Duty, MongoDB, MySQL, SQL

EXPERIENCE

Drevol LLC – Software Engineer Intern (Redmond, WA – Remote)   Aug 2024 – Dec 2024
- Enhanced Jenkins CI/CD pipelines by adding test validation steps and conditional deployment scripts, reducing QA time by 35%. Wrote Python and Shell scripts to automate regression, smoke, and sanity tests, increasing test coverage to 95%.
- Built automation frameworks with Selenium, PyTest, and Postman to run UI and API tests across microservices, cutting manual testing by 65%.
- Engineered JSON schema validators and automated test generators for REST APIs to detect integration issues earlier in the development cycle.

ColoXchange NV Inc. – DevOps Engineer Intern (Las Vegas, NV – Remote)   May 2024 – Aug 2024
- Framed and deployed infrastructure on AWS and Azure using Terraform and CloudFormation, reducing setup time by 40% and increasing reliability.
- Orchestrated containerized applications using Docker and Kubernetes (EKS/AKS), supporting zero-downtime updates and maintaining 99.9% uptime.
- Set up monitoring with Prometheus, CloudWatch, and Datadog, which reduced incident response time by 30%. Partnered with QA, development, and product teams to integrate automation into sprint workflows, tripling monthly release volume.

Vishag Tech Pvt Ltd – Site Reliability Engineer (Gujarat, IN- Hybrid)   Mar 2020 – May 2023
- Managed multi-cloud infrastructure across AWS, Azure, and GCP, tuning compute, storage, and network parameters to reduce operational costs by 25%.
- Rearchitected legacy monolithic applications to cloud-native components such as Lambda, API Gateway, and RDS, improving scalability and deployment speed.
- Modified IAM roles, S3 policies, and encryption settings using KMS to meet 100% of internal audit requirements.
- Established secrets management using AWS Secrets Manager, Azure Key Vault, and Hashi Corp Vault to secure credentials and API keys across all environments.

PROJECT

Cloud-Based Anomaly Detection System using AI
- Designed an anomaly detection pipeline with AWS Lambda, S3, and SageMaker to process infrastructure logs and flag performance issues.
- Trained an LSTM model on historical metrics to detect latency spikes and CPU/memory irregularities with 92% precision. Launched alerts through SNS and integrated with CloudWatch, cutting incident detection time by 40% and enabling automated scaling in production.

Azure VM Deployment Automation
- Created scripts to generate and upload VHD images to Azure, reducing manual provisioning time by 30%. Built a deployment script to launch multiple VMs simultaneously, increasing provisioning speed by 50%.
- Linked the Geneva Monitoring Agent with an AI-based telemetry analysis tool to identify trends and predict failures in real time, improving operational efficiency by 40%.

Security Threat Detection System
- Constructed a real-time system to monitor network traffic using Python, Suricata, and Zeek, reducing security incidents by 30% in the first quarter. Incorporated with ELK Stack for log analysis and alerting.
- Refined detection rules and thresholds through testing and data review, achieving 90% accuracy in identifying and flagging potential threats.