Zeal Patel
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EDUCATION

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

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 (EC2, EKS, Lambda, S3, IAM, VPC), GCP (GKE, IAM, Cloud Functions), Terraform, Ansible, Argo CD, Jenkins, GitHub Actions, Azure DevOps, Docker, Kubernetes
- **Monitoring, Security & Databases:** CloudWatch, Splunk, Datadog, Grafana, Prometheus, ELK, IAM, Guard Duty, HashiCorp Vault, MongoDB, MySQL, SQL

EXPERIENCE

Drevol LLC – Software Engineer Intern (Redmond, WA – Remote)   Aug 2024 – Dec 2024
- Developed scalable microservices on AWS using Python and RESTful APIs, integrating with AWS Lambda, S3, and API Gateway, reducing cold start latency by **30%** and lowering operational costs by **15%** through optimized resource provisioning.
- Supported infrastructure automation by writing Terraform scripts and managing deployments via GitHub Actions; reduced manual deployment errors by **90%** and cut environment setup time from hours to **under 10 minutes**.
- Participated in system performance monitoring using DataDog and CloudWatch; identified and helped resolve bottlenecks, improving application response time by **25%** and contributing to a **40% drop in P1 incidents** over three months.

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 environment setup time by **40%**, increasing reliability, and enabling **100% consistency** across dev, staging, and production.
- Orchestrated containerized applications using Docker and Kubernetes (EKS/AKS), enabling **zero-downtime deployments** and maintaining **99.9% service uptime**, while reducing rollbacks by **65%** through improved deployment validation.
- Set up monitoring with Prometheus, CloudWatch, and DataDog, cutting incident response time by **30%**, reducing MTTR from **90 minutes to under 60 minutes**. Collaborated across QA, Dev, and Product teams to integrate automation into agile sprints, increasing monthly release volume from **4 to 12**.

Vishag Tech Pvt Ltd – Site Reliability Engineer (Gujarat, IN- Hybrid)   Mar 2020 – May 2023
- Managed multi-cloud infrastructure across AWS, Azure, and GCP, optimizing compute, storage, and network configurations to reduce operational costs by **25%** and improve system performance benchmarks by **20%**. Automated configuration and access routines using Python, Bash, and Ansible, cutting manual intervention by **70%**.
- Responded to outages and performance issues, reducing average incident resolution time by **45%**. Implemented proactive monitoring with Prometheus and Grafana, leading to a **35% drop in recurring alerts** and enhanced on call efficiency.
- Established secrets management using AWS Secrets Manager, Azure Key Vault, and HashiCorp Vault, securing over **500+ API keys and credentials**. Adjusted IAM roles, S3 policies, and KMS encryption to achieve **100% compliance** with internal and external audit checks.

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.