

EDUCATION

Illinois Institute of Technology

Aug 2023 – May 2025

Masters of Computer Science (GPA 3.8)

- Secured USD 15k scholarship based on academics and extracurricular achievements

CERTIFICATION

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

Mar 2025 – Mar 2028

WORK EXPERIENCE

Drevol LLC – Automation Engineer

Aug 2024 – Dec 2024

- Enhanced Jenkins-based CI/CD pipelines by integrating dynamic test validation scripts, improving deployment frequency and reducing testing effort by 35%, accelerating time-to-release for critical updates.
- Led AWS migration of legacy on-prem applications by designing scalable infrastructure using EC2, RDS, and Lambda, ensuring 99.9% uptime, improved elasticity, and 20% lower maintenance costs.
- Conducted in-depth latency analysis and optimized databases and network configurations, resulting in a 30% backend latency reduction, enhancing application responsiveness during peak traffic hours.
- Authored GCP architecture documentation, blog articles, and internal tutorials to enhance adoption of infrastructure-as-code (IaC) and microservices best practices across teams.

ColoXchange NV Inc. – Cloud Engineer

May 2024 – Aug 2024

- Oversaw production Kubernetes clusters (EKS) with Helm, and monitored with CloudWatch, ensuring 24/7 availability and reducing mean time to recovery (MTTR) by 30%.
- Resolved over 45+ Jira-tracked issues using Datadog and Splunk for real-time monitoring and log analysis, maintaining 98% SLA compliance and reducing system downtime significantly.
- Engineered EC2 provisioning, log rotation, and Lambda trigger setups using Python and Bash, leading to consistent operations and fewer manual interventions.
- Strengthened cloud security by auditing IAM roles, configuring NSGs/NACLs, and enforcing role-based access, achieving a 40% vulnerability reduction and full audit compliance.

Vishag Tech Pvt Ltd – DevOps Engineer

Mar 2020 – May 2023

- Deployed cost-efficient, fault-tolerant infrastructure on AWS using Terraform and CloudFormation, reducing deployment time by 40% and enabling fast, streamlined environment provisioning.
- Developed CI/CD pipelines using Jenkins and custom Bash scripts to automate build, verification, and deployment workflows, cutting manual overhead by 50% and improving release consistency.
- Built scalable RESTful APIs in Python to improve integration across enterprise platforms, leading to a 25% boost in communication efficiency and reducing system bottlenecks.
- Implemented cloud security best practices via GuardDuty, KMS encryption, IAM policy audits, and S3 bucket controls, enhancing security and ensuring compliance standards were met.

PROJECT

Security Threat Detection System : Engineered a real-time threat detection platform that allowed for the monitoring of network traffic, which resulted in the 30% decrease in security incidents in the first quarter after deployment. Conducted comprehensive testing and optimization, and thus the 90% accuracy rate in terms of the detection and flagging of potential security threat was achieved.

Azure VM Deployment Automation : VHD image creation along with its upload automation to Azure reduced manual setup time by 30% and expedited provisioning in the cloud environment. Created a script to deploy multiple VMs from the image, accelerating deployment by 50%, thereby improving scalability for high-demand applications. Orchestrated the installation of the Geneva Monitoring Agent across all VMs, enabling centralized monitoring and decreasing setup time by 40%, thereby increasing operational efficiency.

Cloud-Native CI/CD Pipeline with Kubernetes & Terraform : Built a cloud-native CI/CD pipeline for e-commerce microservices on AWS using Terraform for infrastructure provisioning and Docker for containerization. Deployed services to Kubernetes (EKS) and integrated Jenkins with Azure DevOps to automate build, quality assurance, and deployment stages. Enabled rolling updates and designed intelligent rollbacks, reducing release cycle time by 60% and improving uptime by 40%.

SKILLS

- Cloud & DevOps:** Proficient in AWS, Azure, and GCP with hands-on experience using Jenkins, Azure DevOps, Terraform, GitHub Actions, Docker, and Kubernetes to build scalable CI/CD pipelines and infrastructure-as-code solutions.
- Programming & Automation:** Skilled in Python, Bash, Java, C++, and JavaScript for scripting, backend automation, and API integration. Experienced in leveraging Linux/Windows environments for cloud-native application deployment and server automation.
- Monitoring, Security & Databases:** Adept with CloudWatch, Splunk, Datadog, Prometheus, and ELK for observability. Implement strong security practices using IAM, NSGs, NACLs, KMS, and GuardDuty, and manage databases like MongoDB, MySQL, and SQL.