

DevOps Engineer

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Saint Albans, NY

MAHFUZUL ISLAM

(US citizen)

CAREER SUMMARY



With **over five (5) years of experience in DevOps engineering and IT operations**, expertise has been developed in managing and automating infrastructure to ensure efficient workflows and seamless software deployments. Significant contributions have been made across the banking, insurance, retail, e-commerce, and healthcare industries by supporting critical systems and delivering high-quality IT solutions. Achievements include optimizing CI/CD pipelines, automating infrastructure provisioning, and ensuring secure and scalable cloud environments. Technical skills include proficiency in container platforms like Docker and Kubernetes, IaC tools like Terraform and Ansible, and cloud platforms like AWS and Microsoft Azure. Hands-on experience with scripting languages like Python, Bash, and PowerShell, as well as tools like Jenkins, Git, and ELK Stack, has been utilized to improve operational efficiency. Additional strengths include configuring and maintaining Linux and Windows servers, monitoring system performance, and implementing robust security measures. A collaborative mindset, strong problem-solving abilities, and excellent attention to detail have supported teamwork and enhanced project outcomes in Agile environments.

TECHNICAL SKILLS



- **Container Platforms:** Docker, Docker Swarm, Kubernetes
- **Infrastructure as Code (IaC) and Configuration Management Tools:** Terraform, Ansible
- **Build Systems, Version Control, and CI/CD Tools:** Jenkins, GitHub, GitLab, GitHub Actions, Build Forge, Maven
- **Monitoring and Log Management:** ELK Stack, AWS CloudWatch
- **Cloud Platforms and Services:** AWS (EC2, IAM, RDS, Route 53, VPC, DynamoDB, Lambda, SES, SQS, SNS, Elastic Load Balancing, Auto Scaling, Elastic Beanstalk), Microsoft Azure (Virtual Machines, Active Directory, SQL Database, Azure Functions)
- **Scripting and Programming Languages:** Python, SQL, Bash/Shell Scripting, PowerShell, YAML, JSON
- **Web and Application Hosting Servers:** Apache Tomcat, Nginx, VMware, Amazon AWS
- **Operating Environments:** Linux, Unix, Windows
- **Database Management Systems:** MySQL, DynamoDB
- **Project and Issue Management Tools:** JIRA (Atlassian), Confluence
- **Quality Assurance and Testing Tools:** SonarQube, Aqua Security
- **Office and Productivity Tools:** MS Excel, MS PowerPoint, MS Word, MS Visio, MS Project

WORK EXPERIENCE



Associate DevOps Engineer

Everyday Health | New York, NY | June 2022 – Present

- Enhanced Maven builds processes and optimized Jenkins CI/CD pipelines by integrating Git, Docker, and Kubernetes to streamline automated workflows and ensure seamless deployments.
- Managed provisioning and administration of AWS services, including EC2, IAM, RDS, Route 53, VPC, DynamoDB, Elastic Load Balancing, Auto Scaling, Lambda, SES, SQS, and SNS, to maintain efficient and secure cloud infrastructures.
- Developed and maintained Terraform modules for infrastructure as code (IaC), managing state files and incorporating automated infrastructure provisioning into CI/CD pipelines.
- Automated configuration management and application deployments using Ansible playbooks, roles, and inventory files to enhance consistency and reduce manual effort.
- Built and maintained Docker images, managed container clusters, and automated deployment workflows to streamline application delivery.
- Deployed and managed Kubernetes clusters, scaling workloads, implementing microservices architectures, and automating application lifecycle management.
- Assisted in transitioning applications to serverless architectures by leveraging AWS Lambda, API Gateway, and related services to enhance scalability and reduce operational overhead.
- Designed and executed Python scripts for task automation, data processing, and monitoring, improving operational efficiency and reducing repetitive manual tasks.
- Implemented Git workflows and managed repositories, ensuring smooth code integration with CI/CD tools like Jenkins and GitHub Actions.
- Configured and monitored AWS Elastic Beanstalk environments and managed web servers using Apache Tomcat and Nginx, ensuring security, reliability, and high availability.
- Administered Linux and Windows servers by automating routine tasks with PowerShell and Bash scripts, ensuring compliance and performance optimization.
- Supported behavior-driven development (BDD) practices by integrating SonarQube for code quality analysis and enabling continuous quality assurance in CI/CD pipelines.
- Monitored project progress, configured Agile/Scrum boards, and maintained dashboards using JIRA and Confluence to improve project visibility and collaboration.

Junior IT Operations Analyst

Best Buy Co., Inc. | Richfield, MN | November 2019 – May 2022

- Configured, deployed, and maintained Linux and Windows servers to support critical applications and ensure smooth IT operations within the insurance domain.
- Maintained platform security and data availability by regularly updating, applying patches, and managing backup processes to safeguard business continuity.
- Monitored the performance and resource utilization of cloud-based and on-premises servers, optimizing operational efficiency and ensuring consistent service availability.
- Troubleshoot and resolved operating system and server-related issues promptly to minimize downtime and maintain seamless insurance business workflows.
- Automated the provisioning and management of AWS cloud infrastructure using tools like Terraform and Ansible to enhance scalability and operational agility.

- Administered AWS services, including EC2, S3, and RDS, to support insurance application hosting, data storage, and database management.
- Strengthened cybersecurity measures by implementing firewalls, encryption protocols, and role-based access control to protect sensitive insurance data and comply with industry regulations.
- Responded promptly to IT incidents, diagnosing and resolving system disruptions to ensure uninterrupted service delivery for business-critical operations.
- Collaborated with cross-functional IT teams and stakeholders to identify performance bottlenecks, propose solutions, and enhance system efficiency.
- Documented system configurations, incident resolutions, and operational workflows to comply with organizational policies and regulatory standards.
- Deployed and managed monitoring tools, such as AWS CloudWatch and ELK Stack, to proactively identify and mitigate potential issues, ensuring consistent service availability.
- Generated detailed reports on system performance, security metrics, and compliance adherence for management review and strategic planning.
- Assisted in implementing disaster recovery and business continuity strategies to secure critical insurance services during outages or system failures.

ACADEMIC ACHIEVEMENTS



- BSc in Computer Science
Institution: The City College of New York

PROFESSIONAL TRAINING & CERTIFICATION



- Python Programming, KnowledgeHut
- DevOps on AWS, Coursera
- DevOps Engineering, Intellipaat
- Kubernetes Hands-on, Udemy
- Mastery Docker, Udemy
- Test Automation Foundations, Coursera

LANGUAGE PROFICIENCY



- Proficient in English
- Native in Bengali

References can be provided upon request.