VIKAS REDDY DEVARINTI

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PROFESSIONAL SUMMARY

DevOps Engineer with hands-on experience in cloud infrastructure, middleware administration, and CI/CD pipelines. Proficient in Linux and Windows system management, Python and shell scripting, containerization with Docker and Kubernetes, and secure deployments using Jenkins and Git. Experience as a Systems Engineer Trainee managing Oracle and IBM Cloud environments, improving system reliability and software delivery. Eager to drive continuous improvements in a collaborative, high-paced setting.

WORK EXPERIENCE

Infosys pvt ltd   **Jul 2022 - Dec 2022**
Systems Engineer Trainee   *Mysuru, India*
Utilized Linux administration expertise to manage WebSphere and WebServer environments, applying Shell Scripting and Python for process automation.
- Administered Oracle and IBM cloud servers to support development and deployment workflows, ensuring high availability and scalability.
- Designed scalable databases with SQL Server to support robust web application architecture and data integrity.
- Developed and maintained deployment and maintenance scripts using Bash and Java, streamlining release processes.
- Developed, tested, and debugged full-stack web applications using Java, JavaScript, HTML, and CSS.
- Managed the complete software development lifecycle from planning through deployment, incorporating agile methodologies and continuous improvement.

PROJECTS

CI/CD Pipeline Setup for a Containerized Web Application   **Sep 2023 - Dec 2023**
- Designed and implemented a CI/CD pipeline using GitHub Actions and Jenkins to automate the build, test, and deployment of a Node. js-based web application.
- Containerized the application using Docker and published images to Docker Hub.
- Deployed the application to an AWS EC2 instance with automated provisioning using Terraform and configuration using Shell scripting.
- Integrated SonarQube for code quality checks and Trivy for container security scanning.
- Set up monitoring and logging using Prometheus and Grafana, enabling real-time system performance tracking.
- Achieved faster deployment cycles and reduced manual intervention by 80% through full automation.

Automated Static Website Deployment on AWS Using S3 and GitHub Actions   **Jan 2024 - May 2024**
- Built and hosted a static website (HTML, CSS, JS) on Amazon S3 with public access configured for website hosting.
- Automated deployment using GitHub Actions, triggered on every main branch push.
- Integrated AWS CLI in the GitHub workflow to upload website files to the S3 bucket securely using IAM credentials.
- Configured CloudFront CDN and Route 53 for custom domain and SSL certificate integration.
- Enabled version control and rollback capability using Git and GitHub, improving update reliability.

Enhancing Security in DevOps: Implementing DevSecOps for Secure Cloud Infrastructure   **Jan 2025 - Apr 2025**
- Conducted a comprehensive study on integrating security into DevOps workflows using DevSecOps principles.
- Proposed and implemented security automation tools for CI/CD pipelines, including SAST, DAST, and container security.
- Explored policy-as-code frameworks for compliance, zero-trust access models, and incident response strategies.
- Addressed real-world challenges in cloud-native environments with microservices, containerization, and Kubernetes security.
- Applied research findings to build a secure, scalable, and automated DevSecOps framework applicable in enterprise settings.

SKILLS

- **Cloud Platforms:** AWS (EC2, S3, Lambda, ECS, EKS, CloudFront, Route 53, RDS, DynamoDB), Microsoft Azure, Google Cloud Platform (GCP)
- **Programming & Scripting Languages:** Python, Java, Bash, Shell, YAML, JSON
- **DevOps & CI/CD Tools:** Jenkins, Git, GitLab, Docker, Kubernetes, GitHub Actions, GitLab CI/CD, CircleCI, Maven, Nexus, XL Deploy, XL Release
- **Containerization & Orchestration:** Docker, Kubernetes, Amazon EKS, Helm
- **Infrastructure as Code (IaC):** Terraform, AWS CloudFormation
- **Configuration Management:** Ansible, Chef, Puppet, SaltStack
- **Monitoring & Logging:** AWS CloudWatch, Prometheus, Grafana, ELK Stack, Datadog, Dynatrace
- **Security & IAM:** AWS IAM, KMS, Secrets Manager, SSO, WAF, Shield
- **Source Control:** Git, GitHub, GitLab, Bitbucket
- **Networking Fundamentals:** VPC, Subnets, NAT Gateway, Security Groups, Load Balancers, DNS, Firewalls
- **Data Pipelines & ETL:** AWS Glue, Lambda, Kinesis, Apache Airflow, Redshift, Amazon S3

Education

Indiana Wesleyan University	**May 2025**
Master's, Information Technology and Management	
Karunya University	**May 2022**
Bachelor of Technology, Electronics and Communication Engineering	

CERTIFICATIONS

- **DevOps Beginners to Advanced with Projects — Udemy**: Completed: June 2025
  Gained 55+ hours of hands-on experience with DevOps tools and practices including Git, Jenkins, Docker, Terraform, GitHub Actions, AWS (EC2, S3, IAM), CI/CD pipelines, Infrastructure as Code (IaC), monitoring (Prometheus, Grafana), and container security. Included real-world project implementations and automation workflows.
- **Programming for Everybody (Getting Started with Python) — University of Michigan | Coursera**: Completed: August 2021
  Completed a foundational course focused on programming fundamentals using Python. Topics included variables, conditionals, loops, functions, and basic data structures. This course built a strong base in Python for automation and scripting in DevOps workflows.

VOLUNTEER EXPERIENCE

Nature's Club, Karunya University	**Aug 2018 - Apr 2022**
Membership coordinator	
American Red Cross	**Sep 2024 - Present**
Blood Donation	