

VIKAS REDDY DEVARINTI

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Professional Summary

Aspiring DevOps Engineer with hands-on experience in cloud infrastructure, automation, and CI/CD pipelines. Proven track record in scripting, cloud services, containerization, and security integration in DevOps. Eager to contribute to a collaborative team to improve software delivery processes and system reliability.

WORK EXPERIENCE

Systems Engineer Trainee | Infosys pvt ltd, Mysuru, India

July 2023 - December 2023

(Leveraged- Linux, Websphere, WebServer, Shell Scripting, Python, SQL Server, Oracle cloud, IBM cloud)

- Administered servers using Oracle and IBM Cloud platforms for development and deployment workflows.
- Designed databases with SQL Server for scalable application storage.
- Created deployment and maintenance scripts using Java and Bash.
- Developed, tested, and debugged full-stack web applications using Java, JavaScript, HTML, and CSS.
- Oversaw full software development lifecycle from planning through deployment.

PROJECTS

CI/CD Pipeline Setup for a Containerized Web Application

September 2023 - December 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

January 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

January 2025- April 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 Architecture & Strategy:** Skilled in designing and implementing cloud-based solutions that are secure, highly available, and cost-effective. Familiar with cloud architecture principles for AWS and Azure, including serverless design, fault tolerance, and auto-scaling to support modern application needs.
- **Automation & Infrastructure as Code (IaC):** Experienced in automating infrastructure provisioning using tools like **Terraform** and **AWS CloudFormation**. Able to create reusable, version-controlled infrastructure templates that reduce manual errors and speed up environment creation in development and production.
- **Cloud Platforms:** Proficient in working with leading cloud service providers. Practical experience includes launching and managing compute resources (EC2), storage (S3), Identity and Access Management (IAM), and networking components across platforms like AWS and Azure.
- **CI/CD Pipelines:** Built fully automated **Continuous Integration/Continuous Deployment (CI/CD)** pipelines using tools such as **Jenkins**, **GitHub Actions**, and **GitLab CI/CD**. These pipelines streamlined code testing, container building, and deployment to production, improving software delivery speed and reliability.
- **Infrastructure as Code (IaC):** Applied **Infrastructure as Code** principles to define cloud resources and configurations as code. Proficient in creating modular Terraform scripts and integrating them into CI/CD workflows for automated deployments and consistent environment setups.

- **Scripting & Automation:** Strong background in writing scripts using **Python**, **Shell**, and **Bash** to automate DevOps tasks such as log monitoring, backups, deployment steps, and cloud resource provisioning. Helps in reducing manual work and increasing system reliability.
- **Containerization & Orchestration:** Experience with **Docker** to containerize applications for consistency across development and production. Familiarity with **Kubernetes** for basic orchestration tasks such as pod deployment and service scaling in cloud-native environments.
- **Version Control & Collaboration:** Proficient in using **Git** for code versioning, branch management, and collaboration in team environments. Experienced with platforms like **GitHub** and **Bitbucket** for pull requests, code reviews, and workflow automation.
- **Security Best Practices:** Knowledge of integrating security in the DevOps lifecycle (DevSecOps) by applying best practices such as IAM role-based access, encryption, secure shell configurations, and using security tools like **SonarQube** (for code analysis) and **Trivy** (for container vulnerability scanning).

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.

EDUCATION

- **Master of Science in Information Technology and Management**
 Indiana Wesleyan University, Merrillville, IN September 2023- May 2025
- **Bachelor of Technology in Electronics and Communication Engineering**
 Karunya University, Coimbatore, India July 2018 - May 2022

VOLUNTEER EXPERIENCE

- Membership coordinator in Nature's Club, Karunya University August 2018 – April 2022
- Participated in Blood Donation, American Red Cross Since September 2024