Uday Venkat Rahul Ogirala

Dayton, OH, 45419 • udayvenkatrahulogirala@gmail.com • +1 (702)802-0086 • LinkedIn

EDUCATION:

University of Dayton — **Dayton, Ohio, USA**
M.S in Computer Science — **December 2024**

EXPERIENCE:

GQBAY Software Pvt Ltd — **Hyderabad**
DevOps Engineer — ***January 2021 - December 2022***

- Designed and deployed CI/CD pipelines with Jenkins and GitHub, cutting deployment times by 20% for healthcare applications while ensuring compliance with industry standards.
- Architected AWS infrastructure using EC2 and S3, delivering 99.99% uptime and meeting HIPAA requirements for healthcare applications.
- Leveraged Docker for containerization, accelerating application deployment by 30%, enhancing scalability of healthcare services.
- Implemented system monitoring with Datadog and ELK Stack, improving visibility and reducing incident response time by 25%.
- Conducted thorough security assessments with Qualys, decreasing security incidents by 40% and ensuring adherence to healthcare security protocols.
- Developed and optimized RESTful APIs in Python, reducing data retrieval time by 35% and improving backend performance for healthcare applications.
- Refactored legacy codebase, decreasing memory consumption by 20% and enhancing system efficiency in high-traffic environments.
- Integrated automated unit and integration tests with PyTest, increasing test coverage to 85% and reducing production bugs by 30%.

SKILLS:

- **Languages & Scripting:** Ruby, Bash, PowerShell, Python, Java, C++, Rust, Go, PHP, TypeScript, SQL
- **Cloud & DevOps Platforms:** AWS (EC2, S3, Lambda, RDS, CloudFormation, IAM, ECS, Fargate, CloudWatch), Azure, GCP; Jenkins, GitLab CI, SonarQube, Azure DevOps, Octopus Deploy, AWS CodeDeploy, GitHub, GitLab, Nexus
- **Containerization & Orchestration:** Docker, Kubernetes, OpenShift
- **Databases:** MongoDB, Redis, PostgreSQL, SQL, Oracle 11g/10g
- **Monitoring & Logging:** New Relic, Datadog, ELK Stack, Azure Monitor, CloudWatch Logs
- **Infrastructure as Code & Automation:** Terraform, CloudFormation, Ansible, Puppet, Chef
- **Operating Systems & Virtualization:** Linux, Unix, Windows, Mac OS-X, VMware, Nutanix
- **Methodologies:** Agile/Scrum, Rational Unified Process, Waterfall
- **Software Development:** FastAPI, Flask, RESTful APIs
- **Testing & Code Quality:** PyTest, Junit
- **Version Control & Collaboration:** Git, GitHub, GitLab

Academic Projects:

Infrastructure Automation with Terraform and GitLab CI/CD

- Implemented an IaC solution with Terraform to deploy VPCs, subnets, security groups, and EC2 instances, reducing provisioning time by 70% and enabling reusable, modularized code managed with S3 and DynamoDB.
- Automated deployment in GitLab CI/CD with validate, plan, apply, and destroy stages, reducing manual effort by 60% and enhancing efficiency with Terraform file caching and secure AWS credential storage.

CI/CD Pipeline with Jenkins and Docker on AWS

- Configured Jenkins on AWS EC2 for CI/CD automation, reducing deployment time by 80% and streamlining artifact transfer to Docker hosts, improving release efficiency by 70%.
- Built Docker containers with custom Docker files for Java applications, enabling 50% faster environment setup and achieving comprehensive build and deployment integration with GitHub and Maven.

Creation of Digital Health ID

- Achieved 85% accuracy in arrhythmia image classification using wavelets and AlexNet CNN, while increasing backend efficiency by 30% through PHP, MySQL, and cloud integration with AWS and Azure.