

Sainath Nelluri

DevOps Engineer

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Lubbock, Tx

Professional Summary

Outstanding Master's degree holder in Computer and Information Science from Texas Tech University, with a flawless 4.0 GPA and about 3 years of practical IT expertise. Specializes in DevOps methodologies, demonstrating proficiency in cloud infrastructure management, CI/CD pipeline implementation, and automation with Terraform, Docker, and Kubernetes. Proven track record of increasing operational effectiveness, reducing deployment times, and improving code quality.

Education

Texas Tech University

USA | Aug 2022 - May 2024

Masters in Computer and Information Science

GPA: 4.0/4.0

Relevant Courses: : Advanced Operating Systems, Parallel Processing, Analysis of Algorithms, Network Security, Automation, Pattern Recognition.

Karunya Institute of Technology and Sciences

India | Jul 2017 - May 2021

Bachelor of Technology in Electronics and communication Engineering

GPA: 8.34/10

Professional Experience

Graduate Assistant, (Texas Tech University | USA)

Jan 2023 - May 2024

- Facilitated the setup of development environments for over 150 students and faculty, ensuring software installations and configurations were optimized, thereby reducing setup issues by 40% .
- Supported the deployment of student applications to AWS or Azure, guiding them through basic cloud service setups and configurations.
- Resolved 50+ development environment issues and enhanced cloud deployment processes, reducing project downtime by 20% and ensuring seamless execution across all project phases.

Application Development Analyst, (Accenture | India)

May 2021 - Aug 2022

- Utilized SonarQube for static code analysis to detect and fixed 200+ bugs, potential security vulnerabilities, and code duplication issues, enhancing code quality and reducing post-release defects by 40% .
- Created interactive Power BI dashboards to track project progress, task statuses, and KPIs; lowered stakeholder reporting time by 40% and improved decision-making accuracy by 30% .
- Managed and implemented Azure DevOps CI/CD pipelines to automate software builds, tests, and deployments, enhancing efficiency and improving delivery speed by 35% .
- Maximized code quality using Azure Repos for version control, achieving a 30% reduction in bugs and maintaining top-tier development standards through seamless integration with cloud platforms.
- Automated infrastructure management by implementing Infrastructure as Code with Terraform and AWS Cloud Formation; Constructed Kubernetes containers ensuring scalable, consistent microservices architecture and 40% faster deployment times.
- Addressed critical application infrastructure challenges in AWS, such as container deployment issues and database connection failures, ensuring 99.9% uptime and increasing deployment efficiency by 30% .
- Engineered and optimized Bash scripts for routine task automation, freeing up 20+ hours of IT resources per month.

Programmer Analyst Intern, (Cognizant | India)

Jan 2021 - May 2021

- Led the development of high-performance .NET solutions using Visual Studio and NuGet packages, improving system reliability by 30% and reducing bugs by 15% . Proficient in C and .NET Core, ensured optimized performance and efficiency.
- Leveraged Postman for local testing and deployed applications locally on custom ports, streamlining development and deployment processes.
- Mastered foundational DevOps practices, integrating Git for version control and Jenkins for CI/CD pipelines, boosting project delivery speed by 40% and improving team collaboration by 50% .
- Pioneered the adoption of Docker and Kubernetes, refining DevOps practices; improved deployment pipelines and reduced server downtime by 25% , significantly improving the system's scalability and reliability.

Skills

- **Programming Languages:** .Net,.Net Core, Java, Java Script, Python, C/C++, HTML, CSS, SQL
- **Web Development Frameworks and Libraries:** Spring Boot, Angular, React
- **Scripting Languages:** Bash, Python, Power Shell
- **Cloud Platforms:** Azure, AWS, GCP
- **Container Orchestration:** Kubernetes, Docker
- **Infrastructure as Code:** Terraform, Ansible, Puppet, Chef
- **CI/CD:** Jenkins, Bitbucket, Git, SonarQube
- **Azure Skills:** Azure DevOps, Azure Infrastructure, Azure IAM,Azure ARM
- **AWS Services:** EC2, S3, EBS, EKS, Storage, Networking, Security
- **Operating System:**Windows, Linux
- **Database Management:** MSSQL, SQL
- **Additional Tools and Technologies:** Power BI, Visual Studio, VS Code

Academic Projects

Major Project on MRI Image Segmentation using Python and U-Net

Engineered an MRI image segmentation project using Python; leveraged libraries like NumPy, Pandas, OpenCV, SciPy, and scikit-image, achieving 85% accuracy and automating workflows to enhance data handling and preprocessing efficiency by 40%

Mini Project on Color Detecting Robot using Java

developed and implemented real-time color detection algorithms using Java's strong features, with remarkable accuracy rates that exceed 90% . effectively processed input and responded by integrating a range of sensors and actuators into the robot's structure.

Online Courses & Certifications

- IBM DevOps and Software Engineering
- IBM Full Stack Software Developer
- Google Data Analytics Specialization
- DevOps Foundations: CI/CD
- DevOps Foundations: Lean and Agile