

Sainath Nelluri

DevOps Engineer & Java Developer

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Professional Summary

Master's graduate in Computer and Information Science, showcasing top academic performance and nearly 3 years of practical IT experience. Proficient in Java, Spring Boot, and DevOps methodologies, with a dedicated focus on data analytics and continuous integration/continuous deployment (CI/CD) pipelines. Experienced in implementing cloud and hybrid solutions on Microsoft Azure, AWS and adept at collaborating with cross-functional teams to ensure seamless deployment and operation of applications.

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 Student Assistant - Operations Division, (Texas Tech University | USA)

Jan 2023 - May 2024

- Provided technical expertise to the Transportation and Parking Services management, leading to an 80% improvement in efficiency.
- Utilized Postman to test APIs, resolving 90% of issues in the department's web application.
- Worked with a team of 10 to leverage Python for scripting and development, effectively meeting departmental needs.

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

- Developed high-performance Java solutions using IntelliJ IDEA and Maven over a five-month internship; contributed to the creation of scalable applications, improving system reliability by 30% and reducing bug occurrence by 15% .
- Acquired hands-on experience in both front-end and back-end technologies, utilizing frameworks such as Spring Boot and Hibernate for server-side development, and gaining exposure to modern JavaScript libraries like React.js.
- 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
- **Methodologies:**Agile - Scrum, Waterfall model
- **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

Projects

Netflix Clone CI/CD pipeline with Monitoring and Alerting ([GitHub](#))

Orchestrated the deployment of a feature-rich Netflix clone application into a Kubernetes cluster, replicating the original platform's functionalities using various DevOps tools.

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%

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