

# Sainath Nelluri

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## EDUCATION

### Texas Tech University, United States

Aug 2022 – May 2024

Master's in computer science

GPA: 4.0

**Coursework:** Analysis of Algorithms, Advanced Operating Systems, Network Security, Parallel Processing, Pattern Recognition

### Karunya Institute of Technology and Sciences, India

July 2017 - May 2021

Bachelor's in Electronics and Communication Engineering

CGPA: 8.34

**Coursework:** Cloud Computing, Java Programming, Data Structures, Database Management System, Computer Networks

## TECHNICAL SKILLS

- ❖ **Programming** : Python, Java, C, Java Script, React.js, Linux (PowerShell/Bash scripting), .Net
- ❖ **DevOps tools** : Docker, Kubernetes, Ansible, Terraform, CICD, Jenkins, Chef, Puppet, API gateway, SonarQube
- ❖ **Cloud Services** : AWS - EC2, S3, IAM, ELB, CloudFormation, EKS, ECS, CloudWatch, Azure – Fundamentals, CI/CD, Git
- ❖ **Database** : Structured Query Language (SQL)
- ❖ **Methodologies** : Agile - Scrum, Waterfall model
- ❖ **Monitoring Tools** : Prometheus, Grafana
- ❖ **Other Tools & Tech:** Git, GitHub, IntelliJ, Eclipse, VSCode, Word, Excel, PowerPoint, Power BI

## WORK EXPERIENCE

### Texas Tech University, Texas, United States

#### Graduate Assistant - Operations Division

Jan 2022 – 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

### Accenture, Bangalore, India

#### Software Development Analyst

May 2021 – Aug 2022

- ❖ Performed and ensured adherence to SDLC best practices, including coding standards, code reviews, source control, and testing, significantly enhancing code reliability and maintainability.
- ❖ Collaborated with cross-functional teams to implement a Jenkins CI/CD pipeline, Git, and AWS CloudFormation, facilitating testing, integration, and continuous deployment, reducing manual errors by over 80%.
- ❖ Managed critical AWS services, including EC2 instances, S3 buckets and Data Pipelines, for multiple microservices.
- ❖ Well-acquainted with over 100 Azure cloud services, including Virtual Machines, Storage, Networking, and Security services.
- ❖ 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 deployments.
- ❖ Implemented and configured SonarQube within CI/CD pipelines to automate static code analysis, achieving a significant reduction in bugs, security vulnerabilities, and code duplications by 50%, thereby enhancing overall code quality throughout the SDLC.
- ❖ Supported Agile/Scrum methodologies, participating in daily stand-ups, sprint planning, and retrospectives, fostering effective communication and iterative development within the team.

### Cognizant, Hyderabad, India

#### Programmer Analyst Trainee

Jan 2021 – May 2021

- ❖ Developed high-performance Java solutions using IntelliJ IDEA and Maven, improving system reliability by 30%.
- ❖ Gained experience in front-end and back-end technologies, using Spring Boot, Hibernate, and 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%.
- ❖ Conducted rigorous API and UI testing using Postman and Selenium, resolving 90% of encountered issues, ensuring robust and reliable application interfaces.

## 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.

### MRI Image Segmentation using Python

Developed an MRI image segmentation project focused on tumor detection using Python and the U-Net architecture on Google Collab. Utilized libraries such as NumPy, Pandas, OpenCV, SciPy, and scikit-image, achieving an 85% accuracy rate.

## CERTIFICATIONS

- ❖ AWS Certified Solutions Architect – Associate( [Badge](#) )
- ❖ Azure AI Fundamentals ( [Badge](#) )
- ❖ IBM DevOps and Software Engineering ( [Badge](#) )
- ❖ Oracle Cloud Data Management 2023 Certified( [Badge](#) )