

# Mourya Sai Charan Reddy Kypa

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## EDUCATION

Texas Tech University, United States

Aug 2022 – May 2024

**Master's in Computer Science**

**GPA: 3.75**

**Coursework:** Analysis of Algorithms, Advanced Operating Systems, Network Security, Computer Architecture & Organization

Sathyabama Institute of Science and Technology, India

July 2016 - May 2020

**Bachelor's in Computer Science and Engineering**

**CGPA: 9.26**

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

## TECHNICAL SKILLS

- ❖ **Programming** : Python, Java, C, Data Structures and Algorithms (Concepts), Linux (Shell/Bash scripting)
- ❖ **DevOps tools** : Docker, Kubernetes, Ansible, Terraform, Jenkins CICD, Chef, Puppet, Kafka
- ❖ **Cloud Services** : AWS - EC2, S3, IAM, ELB, CodePipeline, CloudFormation, EKS, CloudWatch, Azure Fundamentals
- ❖ **Database** : Structured Query Language (SQL)
- ❖ **QA Tools** : Selenium, Cucumber BDD framework, Karate, TestNG, JUnit, Maven, Gradle
- ❖ **Methodologies** : Agile - Scrum, Kanban, XP (Extreme Programming), Waterfall model
- ❖ **Monitoring Tools** : Prometheus, Grafana, Kibana
- ❖ **Tools** : Nexus, JFrog Artifactory, Git, GitHub, Jira, Slack, IntelliJ, Eclipse, VSCode, Word, Excel, Powerpoint
- ❖ **Certifications** : AWS Certified Cloud Practitioner ( [Badge](#) ), NPTEL (Python, C, C++)

## WORK EXPERIENCE

**Texas Tech University, Texas, United States**

**Graduate Student Assistant - Operations Division**

**August 2022 - Present**

- ❖ Supported Transportation and Parking Services management with technical expertise, achieving 80% improvement.
- ❖ Used **Postman** to test APIs, successfully resolving 90% of issues in the department's web application.
- ❖ Collaborated with the team to leverage **Python** for scripting and tool development, effectively addressing departmental needs.

**Informatica Business Solutions Pvt Ltd., Bangalore, India**

**Software Engineer**

**April 2021 – July 2022**

- ❖ 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%.
- ❖ Automated testing in Informatica products with **Selenium**, resulting in a substantial reduction in 75% manual testing.
- ❖ By using **Prometheus & Kibana** for application performance monitoring, incident response time was reduced by 40%.
- ❖ Managed critical AWS services, including EC2 instances and **Data Pipelines**, for four microservices.
- ❖ Possess in-depth knowledge of **Azure** cloud infrastructure and services, covering Virtual Machines, Storage, Networking, and Security.

**Associate Software Engineer**

**January 2020 – March 2021**

- ❖ Assisted in the implementation of Infrastructure as Code (IaC) using **Terraform** to provision and manage the AWS resources, reducing deployment time by 50%.
- ❖ APIs were rigorously tested using **Postman** and **Swagger**, resolving 90% of the encountered issues.
- ❖ Assisted in setting up local dev environments with **Docker** and managed application deployments on **K8s** clusters using **Helm** charts and **kubectrl** commands and achieved a 50% decrease in deployment errors enhancing overall development efficiency.
- ❖ Supported **Agile/Scrum** methodologies, participating in daily stand-ups, sprint planning, and retrospectives, fostering effective communication and iterative development within the team.
- ❖ Implemented multiple conditional-based shell scripts within Jenkins to track various activities, including process errors, and module-based application health checks, as part of the CI/CD pipeline.

## PROJECTS

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

**October 2023**

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

**Deployed a Containerized web application on Amazon EKS ([GitHub](#))**

**December 2022**

A Web application was packaged and deployed using a **Docker** container image, utilizing Git for version control, **Maven** for effective builds, and Jenkins for smooth CI/CD. This controlled replication and automated pod recovery to guarantee high availability on **Amazon EKS**.

**Skills Recommender ([GitHub](#))**

**October 2021**

Leveraged Python's Beautiful Soup module to perform web scraping of trending IT job skills from 2 websites for informed career decisions.