

# 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: 3.82**

**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, CI/CD, Jenkins, Chef, Puppet, Apache Kafka
- ❖ **Cloud Services** : **AWS** - EC2, S3, IAM, ELB, CloudFormation, EKS, ECS, CloudWatch, **Microsoft Azure**
- ❖ **Database** : Structured Query Language (SQL), MongoDB
- ❖ **Methodologies** : Agile - Scrum, Waterfall model
- ❖ **Monitoring Tools** : Prometheus, Grafana, Kibana
- ❖ **Other Tools** : Nexus, JFrog Artifactory, Git, GitHub, Jira, Slack, IntelliJ, Eclipse, VSCode, Word, Excel, Powerpoint

## WORK EXPERIENCE

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

**Graduate Assistant**

**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 a team of 3 IT specialists to support staff and faculty, addressing **software and network** issues.

**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 using **Selenium**, leading to a code coverage increase of over 90%.
- ❖ By using **Prometheus & Grafana** for application performance monitoring, incident response time was reduced by 40%.
- ❖ 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.

**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 over 20 conditional-based **shell scripts** within **Jenkins** to track a wide range of activities, resulting in a reduction in process errors and enhancing module-based application health checks in 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.

## CERTIFICATIONS

- ❖ AWS Certified Solutions Architect - Associate ( [Badge](#) )
- ❖ AWS Certified Cloud Practitioner ( [Badge](#) )
- ❖ NPTEL (National Programme on Technology Enhanced Learning) - Python, C, C++