

# Mourya Sai Charan Reddy Kypa

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## EDUCATION

Texas Tech University, United States

Master's in Computer Science

Aug 2022 – May 2024

GPA: 3.75

Sathyabama Institute of Science and Technology, India

Bachelor's in Computer Science and Engineering

May 2020

CGPA: 9.26

## TECHNICAL SKILLS

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

## WORK EXPERIENCE

Informatica Business Solutions, Bangalore, India

Software Engineer

April 2021 – July 2022

- Collaborated with cross-functional teams to implement a CI/CD pipeline using Jenkins, Git, and AWS CloudFormation, facilitating testing, integration, and continuous deployment, reducing manual errors by over 80%.
- Automated testing in Informatica Intelligent Cloud Services (IICS) using Selenium, resulting in a substantial reduction in testing and deployment time.
- Utilized Prometheus & Kibana for application performance monitoring, reducing incident response time by 40%.
- Managed critical AWS services, including EC2 instances and Data Pipelines, for four microservices.

Associate Software Engineer

August 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%.
- Supported Agile/Scrum methodologies, participating in daily stand-ups, sprint planning, and retrospectives, fostering effective communication and iterative development within the team.
- Leveraged industry-standard tools like Postman and Swagger to comprehensively test APIs, consistently resolving a high percentage of encountered issues.
- Designed and implemented an end-to-end CICD pipeline with Jenkins, Argo CD, and Ansible for system management and automation.

Internship

January 2020 – July 2020

- Assisted in setting up local development environments with Docker and managed application deployments on Kubernetes clusters using Helm charts and kubectl commands.
- Implemented multiple conditional-based shell scripts within Jenkins to proactively track various activities, including process errors, and module-based application health checks, as part of the CI/CD pipeline.
- Engaged in rigorous code reviews and efficiently resolved bugs using Git and GitHub, promoting code quality and collaborative development excellence.

## ACADEMIC PROJECTS

Prediction of Diabetes

December 2019 – February 2020

Applied the Naive Bayes algorithm to predict diabetes in patients by utilizing a dataset of more than lakh images, and displayed the results through a front-end interface.

Twitter Sentiment Analysis

January 2019 – February 2019

Analyzed tweets containing one specific keyword using python and generated a graph to represent how people were responding to the keyword based on the tweets.

Skills Recommender

November 2018 – December 2018

Examined data from various websites using the Beautiful Soup module in Python to determine the most in-demand skills for IT jobs.