# Mourya Sai Charan Reddy Kypa

LinkedIn | +1 806-760-0152 | kypamourya13.github.io | kypamourya13@gmail.com | GitHub

## 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 **kubectl** 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.