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,IndiaJuly 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, Golang, Java, C, Data Structures and Algorithms (Concepts), Linux (Shell/Bash scripting)
* **DevOps tools :** Docker, Kubernetes, Ansible, Terraform, CICD, Jenkins, Chef, Puppet, Apache Kafka
* **Cloud Services : AWS** - *EC2, S3, IAM, ELB, CloudFormation, EKS, ECS, CloudWatch*, **Azure** Fundamentals
* **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 Student Assistant - Operations DivisionAugust 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 of 10 to leverage **Python** for scripting and development, effectively addressing departmental needs.

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

Software EngineerApril 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 EngineerJanuary 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 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**](https://github.com/kypamourya13/Netflix-Clone-CI-CD-pipeline-with-Monitoring-Alerting)**) 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**](https://github.com/kypamourya13/Deploying-a-Containerized-Web-application)**) 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](https://github.com/kypamourya13/Skills-Recommender)) 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**](https://www.credly.com/badges/4f4c3f4d-a946-4053-b6ff-a330dbeb1417/public_url) )
* AWS Certified Cloud Practitioner ( [**Badge**](https://www.credly.com/badges/ad6aa7fb-d635-44c3-91c8-d1afa55042ee/public_url) )
* NPTEL (National Programme on Technology Enhanced Learning) - Python, C, C++