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**

**Sathyabama Institute of Science and Technology,** IndiaMay 2020

*Bachelor’s in Computer Science and Engineering* **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, 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](https://www.credly.com/badges/ad6aa7fb-d635-44c3-91c8-d1afa55042ee/public_url) ), 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.