Mourya Sai Charan Reddy Kypa

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EDUCATION

Texas Tech University, United States <div align="right">Aug 2022 – May 2024</div>
Master's in Computer Science <div align="right">**GPA: 3.75**</div>
Sathyabama Institute of Science and Technology, India <div align="right">July 2016 - May 2020</div>
Bachelor's in Computer Science and Engineering <div align="right">**CGPA: 9.26**</div>

TECHNICAL SKILLS

- **Programming** : Python, Java, C Programming, Data Structures and Algorithms (Concepts)
- **DevOps tools** : Docker, Kubernetes, Ansible, Terraform, Jenkins CICD, Chef, Puppet
- **Cloud Services** : **AWS** - *EC2, S3, IAM, ELB, CodePipeline, CloudFormation, ECR, 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, Kibana, Grafana
- **Operating systems** : Microsoft Windows, iOS, Linux (Shell/Bash scripting)
- **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

<div align="center">**Informatica Business Solutions Pvt Ltd.,** Bangalore, India</div>

Software Engineer <div align="right">**April 2021 – July 2022**</div>

- 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%.
- Worked on **Ansible** playbooks to launch **EC2** instances on AWS using YAML scripting.
- 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.
- Possess in-depth knowledge in **Azure** cloud infrastructure and services, covering Virtual Machines, Storage, Networking, and Security.

Associate Software Engineer <div align="right">**August 2020 – March 2021**</div>

- 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.

Software Engineer, Intern <div align="right">**January 2020 – July 2020**</div>

- 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.

PROJECTS

Deployed a Containerized web application on Amazon EKS <div align="right">**September 2023**</div>
Utilized Jenkins for seamless CI/CD, Maven for efficient builds, and Git for version control to package and deploy a web application using a Docker container image. This ensured high availability on Amazon EKS by managing replicas and automating pod recovery.

Implemented CI/CD Pipeline for simple web application <div align="right">**February 2022**</div>
Developed a streamlined CI/CD pipeline using Jenkins and Docker to efficiently build and deploy a web application on Tomcat Server, enhancing development processes.

Skills Recommender <div align="right">**October 2021**</div>
Utilized Python's Beautiful Soup module to perform web scraping of trending IT job skills from 2 websites for informed career decisions.