Ram Kashyap Cherukumilli

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SUMMARY

Experienced Devops Engineer with more than 3 years of experience, combined with a Master's degree in Computer Science and Engineering. Proficient in Object Oriented Programming, Data Structures and Algorithms, Azure DevOps, Operating Systems, Spring Boot, Java, C++, Python, SQL, and JavaScript.

TECHNICAL SKILLS

Languages: Java,Java Script, Python, C++, Unix,MySQL,HTML,CSS,PHP.

Technology Stack: Azure DevOps, Kubernetes, Terraform, Ansible MySQL, PostgreSQL, Docker,Jenkins,Android Studio,OpenGL, GIT, VS Code, Web Services, Microservices, RESTful APIs, Node.js, Ajax, Jquery, Nginx, ELK Stack, Swagger, CI/CD, Nexus, Continuous Monitoring

EXPERIENCE

Reliance Jio — Aug 2020 - July 2022

DevOps Engineer

- Developed Azure agent scripts using heart-beat mechanism, ensuring uninterrupted operation across 50 RHEL servers in Development, Pre-Production, and Production environments.
- Orchestrated containerization for 20+ microservices using Kubernetes, optimizing resource utilization, achieving 99.9% uptime, and streamlining deployment for improved operational efficiency and reliability.
- Authored specialized Bash scripts for individual component pipelines, improving project efficiency.
- Effectively deployed Azure resources using Terraform, including 10 virtual machines, 2 Azure Kubernetes Service clusters optimizing infrastructure scalability, containerized application management.
- Successfully led automation and managed 10 distinct monolithic projects, each comprising approximately 30 components.
- Managed various build processes (Maven, Gradle, Ant) for microservices, tailoring deployments to unique requirements.
- Created adaptable YAML templates that utilize parameterization for dynamic configuration, promoting code reusability and flexibility across diverse deployment scenarios.
- Devised the backend of JioGST Kpi application using Spring boot with meticulous error tracking during invoice filing and the implementation of role-based dashboards. Achieved a streamlined error resolution process, leading to 15% reduction in compliance-related issues.
- Designed and developed RESTFul microservices for the Reliance Jio learning system.
- Achieved a 95% reduction in deployment time through effective automation without manual intervention.
- Solely managed the successful migration of assets from a private organization's cloud to JFrog for RJIL, optimizing asset management and accessibility.
- Technologies used: Azure DevOps, Kubernetes, Docker, Nexus, Shell Scripting, YAML, Spring Boot, Java.

National Instruments — Jan 2020 - July 2020

Software Engineer Intern

- Optimized Automation Testing for 5 NI products by implementing System Provisioning scripts with Mobilize tool.
- Drastically reduced manual installation time by 90% through automation of prerequisites like RF drivers, LabVIEW, Visual Studio and Windows.

Dewdas Technology Pvt — Jan 2018 - May 2018

Software Engineer Intern

- Collaborated in a team of three to design and develop a cloud-based Android Application for Health Care.
- Created three applications for Doctor, Patient, and Pharmacy, facilitating seamless interaction and data exchange between stakeholders.
- Utilized Google Cloud FireStore Database for efficient data storage.

PROJECTS

Web Tool For Phonemes — Dec 2023

- Led the development of Microservices architecture for the web tool for phoneme visualization and seamlessly deployed it on Kubernetes.
- Innovated an innovative algorithm to generate minimal and maximal pairs, facilitating speech language pathologists

Priority Scheduler in Operating Systems — April 2023

- Created priority scheduler on top of basic FIFO scheduler in pintos through synchronization techniques and kernel threads and efficiency of priority scheduler is improved by heap data structure.

Emission — Dec 2022

- Developed RESTful Backend System and smart contracts for a Decentralised application focused on incentivizing emission control in industries on the Ethereum network.

EDUCATION

University at Buffalo — Dec 2023

- *Master of Science in Computer Science and Engineering. CGPA 3.96/4.0* — *Buffalo, NY*

International Institute of Information Technology Bangalore — Bangalore, India

Master & Bachelor of Technology in Computer Science and Engineering; CGPA: 3.1/4.00 — *Aug 2015 - Jul 2020*