JEEVAN SAI KANAPARTHI

Software Engineer | Cloud DevOps Engineer | Chennai, India
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Technical Skills Summary

- **Cloud:** AWS (EC2, EKS, S3, RDS, VPC, CloudWatch) - Automated infrastructure provisioning using Terraform, resulting in a *20% reduction* in provisioning time (see Experience).
- **DevOps:** CI/CD (Jenkins, Github Actions), Docker, Kubernetes, Terraform, Ansible, Maven - Designed and managed CI/CD pipelines, improving development workflows and reducing deployment errors by *15%* (see Experience).
- **Scripting & Programming:** Python, Shell Scripting - Used extensively for automation and custom monitoring solutions, optimizing container management processes and enhancing performance by *30%* (see Experience)..
- **Databases:** Snowflake SQL, Freemarker Templates, SQL - Automated complex query generation, enhancing reporting accuracy by *45%* (see Experience).
- **Operating Systems:** Linux Administration - Proficient in Linux systems administration, performance tuning, and troubleshooting.
- **Version Control:** Git, GitHub, Bitbucket - Ensured efficient collaboration and version tracking across development teams.

Experience

DevOps Engineer at NielsenIQ India, Chennai, February 2022 - Present [Notice Period: 2 Months]

- Automated CI/CD pipelines using **Jenkins**, Github Actions, **Python**, and Shell, **achieving a 25% reduction in deployment time.**
- Developed Python automation scripts optimizing container management and orchestration with **Docker** and **Kubernetes**, improving deployment efficiency.
- Applied data structures and algorithms in Python to create efficient system-level automation, streamlining repetitive tasks and *enhancing performance by 30%.*
- Spearheaded Docker containerization, streamlining deployments and eliminating errors.
- Optimized Jenkins pipelines and synchronized application images, *reducing deployment misalignments by 30%.*
- Automated complex query generation using **Snowflake SQL**, **Freemarker Templates**, and **window functions**, **improving reporting accuracy by 45%.**
- Managed AWS cloud infrastructure with **Terraform** and **Ansible**, *decreasing infrastructure provisioning time by 20%*.
- Mentored junior engineers in DevOps best practices, **boosting team productivity by 15%**.
- Optimized build and dependency management workflows using **Maven**, improving build consistency.
- Implemented **AWS CloudWatch** monitoring solutions with custom metrics and alarms in Python, ensuring system reliability and uptime.
- Upskilled in cloud technologies, optimizing system efficiency and *reducing operational costs by 25%*.
- **Partner daily with Release Management**, driving a cloud-native approach using **AWS**, Kubernetes, Terraform, and Ansible to automate infrastructure and optimize deployments.
- Focused on Docker containerization, ensuring efficient deployments across all environments.
- Expanded expertise in **data structures, algorithms**, and system optimization for efficient automation and infrastructure management.

Education

- B.Tech from SRM University, Computer Science Engineering, Amaravathi, April 2018 - April 2022, **CGPA: 9.31**

Certifications
- [**DevOps** Beginners to Advanced with Projects (2023) - Udemy](#)
- [**Jenkins**, From Zero to Hero: Become A DevOps Jenkins Master - Udemy](#)
- [Monitoring **AWS** with **CloudWatch** - LinkedIn Learning](#)

PROJECTS

- **DevOps Engineer | CI/CD Pipeline Development and Support for NielsenIQ Applications (3+ Years)**
  Maintained and optimized CI/CD pipelines using Jenkins, Docker, Kubernetes, Terraform, Ansible, and Python, while leveraging AWS (EC2, EKS, S3, RDS, CloudWatch), and Maven to ensure consistent, reliable, and efficient application deployments. Additional skills in Git, Shell Scripting, Groovy, and Linux Administration were applied to enhance automation and system performance. See "DevOps Engineer" role in Experience section for further details.
- **Real-Time Data Aggregation and Filtering System Using Snowflake SQL – NielsenIQ (3+ Years)**
  Designed and implemented a robust real-time data aggregation and filtering system, leveraging advanced Snowflake SQL queries and innovative data aggregation techniques to enhance data processing efficiency by 20%. Utilized expertise in Python and data structures to optimize query performance and streamline workflows. For additional details on the implementation, tools, and impact, please refer to the "DevOps Engineer" role in the Experience section.
- **Containerized Doctor-Patient Interaction and Appointment System (Personal Project):**
  Developed a containerized Doctor-Patient Interaction and Appointment System, an online portal designed to streamline communication between doctors and patients while enhancing operational efficiency. The platform enables patients to request appointments and doctors to manage schedules and generate receipts seamlessly, fostering direct and effective interaction. The portal was built using HTML, CSS, JavaScript, PHP, and MySQL for robust front-end, back-end, and database management, ensuring a user-friendly experience. To optimize scalability and deployment, the application was containerized using Docker and Docker Compose, with multiple Docker images sourced from Docker Hub to efficiently set up and manage the containerized environment.