



BANGARRAJU INDANA

Software Engineer

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Experience Summary

- Working as Server Administrator and DevOps Engineer in Absolin Software Solutions LLP
- Dynamic IT professional with 3 years of experience in Linux server administration, DevOps practices, and cloud infrastructure management
- Expertise in deploying and managing scalable solutions using AWS, Amazon EKS (Elastic Kubernetes Service), and Terraform following Infrastructure as Code (IaC) principles
- Skilled in optimizing CI/CD pipelines with tools like Docker, Jenkins, and Git, ensuring seamless application deployment and delivery
- Proficient in Node.js and Express.js, with a proven track record of developing RESTful APIs and driving automation in cloud-native environments
- Adept at managing VPCs, containerized applications, and orchestrating solutions that enhance efficiency and scalability
- Strong advocate of Agile methodologies, with a proactive and self-driven approach to learning and problem-solving
- Recognized for a sense of responsibility, teamwork, and delivering effective IT solutions

Skills

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|-----------------------------|-------------------|---------------------------------|------------------------|
| • Cloud Technologies | : AWS | • Infrastructure as code | : Terraform |
| • Backend | : NodeJs | • Version control tools | : Git, GitHub |
| • CI/CD | : Jenkins | • Servers | : Linux, Windows IIS |
| • Scripting | : Shell Scripting | • Web Servers | : Nginx, Apache Tomcat |
| • Orchestration | : Kubernetes | • Database | : MongoDB, Postgres |
| • Containerization | : Docker | | |

Achievements, Labs & Certification

- Advent of Cyber in 2020 from TryHackMe Academy, won a Raspberry Pi 400 as part of the Advent of Cyber challenge
- CEH (Certified Ethical Hacking) certification in 2021 from OneByteLabs
- Advent of Cyber 3 in 2021 from TryHackMe Academy
- Advent of Cyber 2023 from TryHackMe Academy
- TryHackMe cybersecurity certifications achieved in 2021-2023, including :
 - Web Fundamentals, Introduction to Cyber Security, Jr. Penetration Tester, Pre Security, Cyber Defense, Complete Beginner, Offensive Pentesting, CompTIA Pentest+

Education

- I completed a B.Sc. in Computer Science (MPCS) from Adarsh Degree College, Andhra University, graduating in 2021.
- I successfully completed the MPC (Mathematics, Physics, Chemistry) course in intermediate at Sri Chaitanya Junior College

Projects

Project #1 : Server Administrator and DevOps Engineer, Absolin Software Solutions LLP

- Roles & Responsibilities** :
- **Kubernetes Cluster Implementation:** Architected and deployed a Kubernetes cluster on AWS using Terraform, reducing containerized application management time by 30% and improving scalability.
 - **CI/CD Pipeline Automation:** Developed and automated a Jenkins-based CI/CD pipeline, decreasing deployment time by 40% and enhancing consistency with a reduction in manual intervention by 60%.
 - **Database Deployment and Management:** Deployed and configured PostgreSQL databases, ensuring 99.9% uptime and conducting performance tuning that improved query response times by 25%.
 - **Container Orchestration Enhancement:** Enhanced container orchestration strategies by implementing advanced Kubernetes features, such as Helm charts and custom controllers, resulting in a 20% increase in deployment efficiency.
 - **Application Performance Monitoring:** Implemented APM tools like Datadog to monitor application performance, leading to the identification and resolution of bottlenecks, which improved user experience by 15%.
 - **Resource Scaling Automation:** Established automated scaling policies for both vertical and horizontal scaling of applications, optimizing resource utilization based on performance metrics and achieving a 50% reduction in resource costs during peak usage periods.
 - **High Availability Management:** Managed and maintained a high-availability Kubernetes cluster, implementing rolling updates that improved system reliability and reduced downtime to less than 1% during deployment cycles.

Project #2 : Report Automation, Dataflow

Description : The DataFlow Group is a pioneering global provider of specialized Primary Source Verification (PSV) solutions, and background screening and immigration compliance services that assist public and private organizations in mitigating risks to make informed, cost-effective decisions regarding their applicants and registrants. They are partners with clients across the public and private sectors to assist them in mitigating potential risks by exposing fraudulent education degrees, job histories, practice licenses, work permits and passports, among other personal or professional documents.

- Roles & Responsibilities** :
- Deploying Java application JAR code on Linux servers, setting up environments for JAR and WAR applications using technologies such as Git, Apache Tomcat Server, and Shell Scripting
 - Creating a shell script to automate the scheduling of jobs and cleanup activities.

Project #3 : CTF (RCE Vulnerability), TryHackMe

Description : This CTF (Capture the Flag) challenge focuses on Remote Code Execution (RCE) vulnerabilities within a containerized environment and incorporates the use of Docker containerization and Nginx reverse proxy. Participants will engage in practical tasks and puzzles designed to enhance their understanding of RCE vulnerabilities and their exploitation. By simulating real-world scenarios, participants will gain hands-on experience in identifying and mitigating RCE vulnerabilities in Docker containers while also learning about the role of Nginx reverse proxy in securing applications.

- Roles & Responsibilities** :
- Developing build deployment using Nginx reverse proxy, Node.js, Docker, and an application while setting up the environment for automation processes. Fully handling build and deployment using Git and Docker.
 - Set up Node.js and Dockerize the application using a Dockerfile for containerization.
 - Utilize Nginx as a reverse proxy to handle incoming requests and forward them to the backend server.
 - Automate the build and deployment process using Git integration and CI/CD tools like Jenkins or GitHub Actions.

(BANGARRAJU INDANA)