Shubham Vyas

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SUMMARY

Proficient in Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment, Release Management, and database management. Demonstrated expertise in orchestrating and automating resource provisioning on major cloud platforms, including AWS, GCP, and Azure. Well-versed in the administration of diverse environments throughout the software development life cycle.

EDUCATION

Indian Institute of Information Technology (IIIT) Bhopal,   *Bhopal, MP*

Bachelor of Technology, Information Technology   *Expected 2024*

(Software Engineering, Computer Networks, DBMS, Operating Systems, Data Structure, and Algorithms)

WORK EXPERIENCE

DevOps Engineer - *flobiz.in*
Flobiz.in, Onsite Bangalore   *May 2023 – Present*

- Successfully established and configured GKE and GCE Monitoring & Logging on Google Cloud Platform for comprehensive system monitoring and log management.
- Orchestrated the migration of services from GCP VM to GKE and Cloud Run, enhancing scalability and resource efficiency.
- Designed and implemented a robust CI/CD pipeline using Cloud Build and GitHub Actions, facilitating automated deployments on GKE and GCE environments.
- Leveraged ArgoCD to implement seamless rolling updates and rollbacks, ensuring continuous deployment with minimal disruption.
- Implemented Auto Scaling for various services, optimizing resource utilization and cost-effectiveness while maintaining high load tolerance.
- Implemented Kubernetes RBAC to manage access for diverse users and services, ensuring a secure and controlled environment.
- Successfully migrated Flobiz's Cloud SQL database from GCP to AWS RDS and later to AWS Aurora, minimizing downtime and ensuring data integrity.
- Led the migration of Flobiz's entire infrastructure to AWS, encompassing GCP VMs, Cloud Run, GKE, Cloud Storage, and MongoDB Atlas.
- Implemented a self-hosted logging solution for the entire infrastructure using Grafana Loki, resulting in a reduction in overall logging costs.

DevOps Engineer - *makerble.com*
Makerble.com, Remote   *August 2022 – May 2023*

- Successfully executed the migration of Production and other environments from Heroku to AWS, implementing 100% Terraform coverage for automated infrastructure provisioning in AWS.
- Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using argocd and tekton along with Python and Shell scripts to automate routine jobs.
- Developed and maintained fully automated CI/CD pipelines for code deployment utilizing ArgoCD and Tekton, actively managing, improving, and monitoring cloud infrastructure on AWS, EC2, S3, and RDS, including responsibilities for backups, patches, and scaling.
- Achieved a remarkable cost reduction of approximately 70% by eliminating unnecessary servers, consolidating databases, and strategically utilizing spot instances.
- Provided comprehensive support for the infrastructure of Makerble, overseeing AWS EC2 instances, RDS databases, Elastic Load Balancers, S3 buckets, Cloudflare DNS records, and Cloudfront CDN distribution.
- Successfully deployed self-hosted variants of SaaS solutions such as Openreplay, Metabase, and Grafana, contributing to a more scalable and cost-effective infrastructure.
- Offered on-call support for production issues and assisted developers in troubleshooting and issue resolution.
- Utilized Docker to streamline environment setup for development and testing, enhancing efficiency and consistency across the team.
- Designed infrastructure and developed utilization reports, presenting findings to eight stakeholders and two senior managers, demonstrating a commitment to transparency and effective communication.

Full Stack Developer Intern - metastart.in
Metastart.in, Remote   *July 2022 – August 2022*

- Spearheaded the implementation of robust authentication and authorization mechanisms for the admin-panel dashboard using Firebase, enhancing security and access control.
- Crafted a user-friendly Inventory UI from the ground up for the Team Liquid Plus website, prioritizing an optimal user experience.
- Authored Dockerfiles for Node.js applications, streamlining the containerization process and enhancing the deployment efficiency of the applications.

POSITIONS OF RESPONSIBILITY

GNU / LINUX Users Club
Core Team   *2021 – 2022*

- Encouraging students for Linux, Open Source and DevOps
- Organized events with 100+ participants

Kratigence Club
Webmaster   *2021 – 2022*

- Conducting webinars related to Statistics behind machine learning algorithms
- Promoting culture of Data Science with our discord server being active 24*7

SKILLS

Linux: Arch Linux, Ubuntu, Alpine, NixOS, Debian
Kubernetes: Operator Pattern, Helm Configuration, Sidecar Pattern, Service mesh
Ci/Cd: ArgoCD, Argo Workflows, Tekton, Github Actions, Gitlab CI, Jenkins
Programming Languages: JavaScript, Python, Bash Scripting, Rust, Solidity, C
Databases: MongoDB, MySQL, Postgres, Redis
DevOps Stack: Linux, AWS, Nginx, Docker, Terraform, Grafana, Prometheus, Loki