Sumit Kumar

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EDUCATION

Masters in Computer Application   Bengaluru
Jain University   *Jan 2024*

Bachelor in Computer Application   Bengaluru
Jain University   *June 2021*

TECHNICAL SKILLS

CI/CD: GitLab CI/CD, GitHub Actions, Dagger, Argo CD
ML/AI: Kubeflow
Languages: Python, Java, Go
Cloud Technologies: Microsoft Azure, AWS
Containerization: Docker, Kubernetes
Monitoring: Prometheus, Grafana
Source Control: Git, GitHub
Infrastructure as Code (IaC): Terraform

EXPERIENCE

Software Engineer   Jan 2022 – Jun 2024
Brillio Technology   *Bengaluru*

- Configured and optimized Kubernetes Ingress Controller (NGINX) to manage routing, SSL/TLS termination, and load balancing for multi-service applications.
- Designed and implemented ML pipelines with Kubeflow, automating data preprocessing, model training, evaluation, and deployment.
- Implemented GitOps practices using Argo CD to automate application deployment, version control, and synchronization with Kubernetes environments.
- Built a Kubernetes Admission Controller to validate and modify resource requests before deployment.
- Set up Prometheus and Grafana stack in Kubernetes clusters to enable observability, resource monitoring, and automated alerting.
- Streamlined deployment processes using Templates, automating infrastructure creation and deployments.
- Improved container efficiency by reducing Docker image sizes, resulting in faster scaling and lower resource consumption.
- Developed automation scripts to reduce manual tasks and improve operational efficiency.
- Provisioned infrastructure using Terraform, leveraging advanced provisioning and state management features.
- Implemented access control mechanisms for secure resource management using Azure Entra ID.
- Configured Azure Logic Apps to trigger alerts for failed Data Factory pipelines, automatically creating DevOps tasks.

PROJECTS

CRUD for Kubernetes Pods | *Go, Docker, Kubernetes, client-go*

- Developed a Go-based CLI using client-go library to list, create, and delete Kubernetes pods via API integration.
- Implemented secure communication with Kubernetes API server and managed pod lifecycle programmatically.

Custom Kubernetes Controller | *Go, Docker, Kubernetes*

- Built a Kubernetes controller in Go using client-go informers to automate Service and Ingress creation when a Deployment is created.
- Enhanced cluster automation and reduced manual configuration by implementing reconciliation loops.

ACHIEVEMENTS

Participated in Google Developer Group Event

Participated in Azure Open Source Day

CERTIFICATIONS

AZ-900: Microsoft Azure Fundamentals   **Azure**

AZ-204: Microsoft Azure Developer Associate   **Azure**

AWS Certified Cloud Practitioner   **Aws**