CHANDAN KUMAR

Software Engineer

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Certified Kubernetes Administrator(CKA) with **6** years of experience in **GoLang** and **Kubernetes** domain, currently working as a Senior Software Engineer in **Msys Technologies, Bangalore, India**.

TECHNICAL SKILLS

- Software Language: **GoLang**, **Java**
- Frameworks: **RestAPI, gRPC, GraphQL**
- Operating System: **MacOS, Linux**, **Windows**.
- Project Management: **Jira** and **GitHub**.
- Revision control system: **Git**.
- Cloud-based Tools and Technologies: **Docker**, **Kubernetes, Terraform, Helm**
- Cloud Providers: **Azure, AWS, and GCP**
- Databases: **Yugabyte, MongoDB, Redis**

Apart from the above skills I have also contributed to frontend projects in **JavaScript** and have experience in contributing to OpenSource projects like **Kubernetes/website**, **Weaveworks/scope, openebs/openebs** as well as a maintainer of CNCF OpenSource Project **litmuschaos/litmus** and attended the **Kubernetes Conference Europe 2023** as a **OpenSource Project Maintainer, also a communication release lead of Kubernetes-sigs** project.

EXPERIENCE

Msys Technologies, Bangalore (**OCT 2023 - Present**) - *Senior Software Engineer*

Client: Intuit, USA

Technologies Used: Golang, Docker, Kubernetes, AWS, Terraform, Helm, Kubedog, Jenkins

Project: Numaflow (Data/stream processing platform on Kubernetes)

- Developed and integrated an SDK for AWS SNS for Numaflow, a data/stream processing platform on Kubernetes
- Developed the Numaflow linked resource status sync to the reference owner.

Project: Numaplane (Controle plane for managing Numaflow resource on Kubernetes cluster)

- Developed Kubernetes client for managing CRDs(Custom Resource Definitions) on Kubernetes cluster from scratch.
- Developed the installation, and management process of Numaplane resource on the kubernetes cluster by using **Makefile**, **Docker,** and **Github workflow.**
- Developed and Integrated the application-related metrics and exposed them to the Prometheus endpoint with grafana dashboard creation.
- Developed Behaviour Driven Development(BDD) tests for Numaplane to test the functionality and ensure the robust code using Kubedog.

ZopSmart Technology, Bangalore (**FEB 2021 - SEP 2023)** - *Senior Software Engineer*

Client: Kroger Technology, USA

Technologies Used: Golang, Kubernetes, Docker, Azure, Terraform, Helm, Yuabyte, Redis

Project: Location

- Engineered and integrated multiple restful APIs (Bing, Google) into Location Project at Kroger Technology, improved address validation accuracy by over 40%, resulting in a 25% rise in customer satisfaction.
- Developed and implemented a store information management system for Kroger Technology's Location Project, system streamlined information flow and reduced data processing time by 50%.
- Established a streamlined CI/CD workflow using GitHub and Harness, automating testing and deployment processes and reducing release cycle time by 40%
- Resolved production issues during off-hours by identifying root causes and implementing permanent fixes, reduced downtime by 30% and increased customer satisfaction by 20%

    Tools and Technologies: Golang, Java, RestAPI, Kubernetes, Docker, Terraform, Azure Cloud, Yugabyte DB, Git

MayaData Inc, Bangalore (**FEB 2018 - FEB 2021)** - *Software Engineer*

Technologies Used: Golang, Kubernetes, Docker, Azure, Terraform, Helm, MongoDB

- Written **Chaos Operator** based on **Operator-Framework** to manage and run chaos testing in kubernetes cluster.
- Engineered backend SaaS platform for manage and deploy OpenEBS components in kubernetes Cluster also integrated the feature to run scheduled chaos test.
- Added subscription Management feature in SaaS platform using Stripe.
- Worked in a Team to develop software for Build Result Visualization (Blog: https://bit.ly/3Z6XQkl)
- Automated the provisioning of Kubernetes cluster during CI in real time using Ansible, KOPS, and Kubeadm. (Blog: https://bit.ly/3fUb5PK)

    Tools and Technologies: Golang, Java, JavaScript, NodeJS, Kubernetes, Docker, Ansible, GCP, AWS, Mysql, MongoDB, Git, RestAPI, GraphQL

Achievements

- Spot Award - 2020
- Ownership Award - 2019

BLOG, TALKS AND CONFERENCES

Talks

- **Conference**: KubeCon + CloudNativeCon, Europe 2023
- **Speaker**: CloudNative Rejekts 2020 Amsterdam, Europe

Blogs

- https://blog.mayadata.io/openebs/how-to-easily-build-a-ci-dashboard
- https://blog.mayadata.io/openebs/provisioning-kubernetes-cluster-by-kubeadm
- https://chandan-kr404.medium.com/kubernetes-rbac-escalation-rule-1b3b06941e56

EDUCATION

B.Tech, Computer Science & Engineering - *8.7 CGPA*

NSHM Knowledge Campus, Durgapur [2014 - 2018]

Projects

- Monitoring, visualizing, and troubleshooting the Kubernetes cluster using Weaveworks/Scope
- Chatting Applications using Angular and PHP.
- Contestant in Smart India Hackathon Organized by AICTE 2017 (Team of 5).