Jayadeep KM

Senior Software Engineer | Kubernetes Architect | Certified Kubernetes Administrator

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Education

International Institute of Information Techonology
IIIT, Bangalore (Online)
PG Diploma in Cloud Computing - (Part time - ongoing)
2021

Kerala University
College Of Engineering, Trivandrum
BTech in Computer Science - CGPA: 8.0
2017

Skills

Cloud	Docker · Kubernetes · Operator SDK · Kubebuilder · Jenkins · ArgoCD · Terraform
Languages	Go · Java · Javascript · Nodejs · Bash · Python
Frameworks	Gin · React · Angular · Express
Others	Vim · Version Control · Mysql · Mongodb · AWS · GCP
General	Good Debugging Skills · Open Source Contributor · Linux Enthusiast

Experience

Avesha Systems
Bangalore
Senior Software Engineer
2019-Present

- Worked as Part of Mesh and Infrastructure team
- Designed and Developed Avesha Mesh, a multi cluster service mesh for Kubernetes
- Designed and Developed Service Discovery for Avesha Mesh
- Implemented DNS Server using CoreDNS
- Developed entire control plane components including CRDs, controllers, webhooks etc.
- Developed command line tool to interact with the mesh across different clusters
- Developed helm charts, deployment scripts, ArgoCD and Jenkins pipelines
- Managed Nexus and Jenkins servers
- Developed Terraform scripts for deployment
- Developed e2e test framework for multi cluster testing

SAP Labs
Bangalore
Full Stack Engineer
2017-2021

- Worked as Full stack developer across multiple teams (Java and UI5)
- Responsible for end to end management of a cloud based full stack Application
- Developed jarvis, a tool to automate customer deployment which reduced application delivery time from 30 mins to 2 minutes
- Got selected for SAP Academy of Engineering, A prestigious training program for selected employees across the Globe

Sensomate Systems *Trivandrum*

Developer Intern 2016

- Worked as part of Development and debugging team
- Projects include BLE based Attendance management system (full stack), Municipality management app (ionic) and VPN application for Android

Personal Projects

Majo Operator *github.com/kmjayadeep/majo-operator*

- A Kubernetes Operator to automate periodic Database backups in Kubernetes
- Implemented using Operator SDK and GO
- Supports Mongodb and Mysql as Database sources
- Supports a wide range of storage options like S3, Sftp, Ftp etc.

Watermark *github.com/kmjayadeep/watermark-microservices*

- An example project which showcases asynchronous, event-driven cloud native solution to a problem
- Tech stack include kubernetes(GKE), terraform, pubsub, nodejs, mongodb, graphql, GRPC, KNative
- Includes one click script for provisioning, running tests and showing results

Wshare *github.com/kmjayadeep/wshare*

- A simple, lightweight web app to share files through local & remote networks. Written in node.js using Express and ejs. Available in npm repository and github
- Supports drag and drop upload and download functionality

Micro Projects

- **resume** : This resume is generated using golang and html templates
- **featureflag-nodejs** : A feature flag implementation in nodejs
- **docker-compose-generator** : Generate docker-compose.yaml from command line
- **nanodateformat** : Lightweight date formatter for Javascript
- **digitalocean-k8s-terraform** : A Terraform script to create a Kubernetes cluster in Digitalocean with ingress controller, cert manager and metrics server

Achievements and Certifications

- Certified Kubernetes Administrator - 95% (LF-kdin5ol6q2) - 2021
- Top contributor in open source project - "Litmus chaos engine" for Hactoberfest 2019
- Top contributor in open source project - "OpenEBS" for Hactoberfest 2018
- Front-end and Back-end certification from Freecodecamp
- Machine learning certificate from Coursera
- Outstanding student volunteer for IEEE in 2017