

# Jayadeep KM

Senior Software Engineer | Kubernetes Architect

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kmjayadeep 

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## Education

**International Institute of Information Techonology**

PG Diploma in Cloud Computing - (Part time - ongoing)

IIIT, Bangalore (Online)

2021

**Kerala University**

BTech in Computer Science - CGPA: 8.0

College Of Engineering,

Trivandrum

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**

Senior Software Engineer

Bangalore

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**

Full Stack Engineer

Bangalore

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

- 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

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## Personal Projects

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### Majo Operator

[github.com/kmjayadeep/majo-operator](https://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](https://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](https://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 go lang 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

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## Achievements and Certifications

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- 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