

# Manjula Rajamani

manjularajamani98@gmail.com

## Contact Information

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**GitHub:** [github.com/manjularajamani](https://github.com/manjularajamani)

**Framagit:** [framagit.org/manjularajamani](https://framagit.org/manjularajamani)

**LinkedIn:** [linkedin.com/in/manjularajamani](https://linkedin.com/in/manjularajamani)

These platforms showcase my latest projects, professional achievements, and skills.

## Personal Profile

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As a dedicated and technically skilled DevOps Engineer, I bring a unique blend of understanding and experience in both software development and IT operations. My two-year journey in this industry has allowed me to master a variety of technologies including, but not limited to, Docker, Kubernetes, Jenkins, and Terraform.

## IT CERTS

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AWS CERTIFIED DEVOPS ENGINEER - PROFESSIONAL

## Work Experience

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### ITTRIDENT SOFTWARE SERVICES

Junior DevOps Engineer - December 2021 - April 2022

DevOps Engineer - December 2022 - Present

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## Professional Experience

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### JUNIOR DEVOPS ENGINEER

- Written the Dockerfile and Docker Compose for an open-source project, and I have also made a contribution by sharing it
- Deployed the application on Kubernetes using GitLab's CI/CD
- Setup the Kubernetes on Centos 8 server for my organization
- Deployed a React and Node.js application onto an EC2 instance using a Jenkins pipeline
- Written an Ansible playbook for a forum application.

### DEVOPS ENGINEER

- Managed the AWS cloud infrastructure, which included tasks such as maintaining EC2 instances, managing S3 buckets, configuring ECS and EKS, and optimizing VPC settings.
  - Automated application deployments using a cloud-native AWS pipeline to enhance productivity and significantly reduce deployment time
  - Built an AWS infrastructure using Infrastructure as Code (IaC), utilizing both CloudFormation and Terraform
  - Setting up Amazon Route 53 as an SMTP server to manage email and incorporating SPF (Sender Policy Framework) and DKIM (DomainKeys Identified Mail) records is an effective way to ensure that only authorized email transactions are permitted
  - Managed users, policies, and roles in IAM
  - I've used a Cloud Build YAML file to deploy an application to different GCP services. Specifically, I've deployed the application to Cloud Run, Cloud Storage, Compute Engine, and Cloud Registry
  - Used AWS CodeCommit, Google Cloud Platform's Source Repository, and GitHub to manage your source code.
  - Configured the Domain with SSL to the applications
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## Open Source Projects

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### LUFI

Dockerized this temp file hosting site source

**Tools**: Docker • Docker Compose

### FLUXBB

Deployed the FluxBB forums on Hetzner via Terraform IaC and Ansible Config Management

**Tools**: Ansible • Terraform • Hetzner

### HYPERTEXT-EDITOR

Dockerized the application and submitted a PR

**Tools**: Docker

### IRIS-WEB

Drafted the helm chart for Iris-web application and contributed to the deployment of iris-web. My helm chart for iris-web has been merged into the repository.

**Tools**: Kubernetes • AWS EKS • Helm

### KANBAN-BOARD

Drafted a K8s YAML manifest for this full-stack application and deployed the webapp to a bare-metal (Dell OptiPlex 5090) k8s cluster to test out internally at our DC and later applied the manifest in an EKS cluster for production usage. Additionally, modularized the EKS cluster provisioning in a terraform module for importing into future projects

**Tools**: Kubernetes • AWS EKS • Terraform

### PYSECCOMP-PLAYGROUND

Python scripts that have been seccomp'd via the libseccomp python library

**Tools**: Python, python-libseccomp

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## Projects

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### SRI IYYAPPA TRUST

The SIT application functions as a platform for storing and managing life member information on a server. It also enables the automatic sending of notifications regarding their scheduled religious ceremonies or "Poojas".

- Deployed a MERN (MongoDB, Express.js, React.js, Node.js) application on AWS ECS using GitHub Actions. Additionally, I configured ACM (AWS Certificate Manager) to ensure secure browsing access

**Tools:** AWS • GitHub • Jenkins • Docker

### AWARDS AND ACHIEVEMENTS

2022 - Awarded for the month of September for SIT deployment

### KEY ABILITIES

AWS • GCP • Terraform • Kubernetes • Ansible • Docker • Jenkins • Linux

### EDUCATION

Bachelor's Degree in Electronic and Communication Engineering | 2016-2020

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