

# JYOTHI RAM

☎ +91-8074728123

✉ [jyothiram261@gmail.com](mailto:jyothiram261@gmail.com)

🌐 [Linkedin](#)

🐙 [Github](#)

## EDUCATION

National Institute of Technology Karnataka

Btech- Bachelor of Technology

2022 – 2026

Surathkal, Karnataka

## EXPERIENCE

NITK Winter of Code |

Nov 2023 - Feb 2024

- Enhanced the staging project using Docker, Celery, Redis, and Django Server, improving task processing efficiency by 30%
- Conducted security testing and managed RBAC systems based on deployment tags to control access to deployment resources
- Utilized Docker for containerization, ensuring consistent and scalable deployment environments.
- Improved scalability of the staging server using Celery for asynchronous task processing and Redis as a message broker
- Developed and maintained scalable, secure web applications using the Django framework.

## PROJECTS

Deployment of 2048 Game on EKS Cluster | [Kubernetes](#), [AWS EKS](#), [Helm](#), [Docker](#)

- \* Provisioned and configured an Amazon EKS cluster for efficient scaling and management of application pods.
- \* Created and managed AWS IAM policies and roles for secure resource access.
- \* Deployed the 2048 game using Kubernetes manifests and Helm charts, simplifying deployment and management.
- \* Configured AWS ALB with Helm for traffic distribution, ensuring high availability and health checks.
- \* Utilized AWS Fargate for serverless container deployment , Integrated an OIDC provider for secure authentication and authorization.

TerraForm-EKS-Jenkins (CI/CD) Deployment | [Terraform](#), [Jenkins](#), [AWS](#), [Kubernetes](#)

- \* Provisioned Jenkins Server with Terraform: Automated the setup of Jenkins and essential tools on an EC2 instance using Terraform.
- \* EKS Cluster Deployment: Developed and applied Terraform configurations to deploy a secure EKS cluster in a private subnet.
- \* NGinx Application on EKS: Deployed an Nginx application to the EKS cluster using Kubernetes manifests for high availability.
- \* Automated CI/CD Pipeline: Implemented a Jenkins pipeline to automate EKS cluster creation and NGinx deployment, integrating Terraform and Kubernetes, and configured Jenkins for continuous integration and automated deployment workflows, enhancing development efficiency.

Real-Time DevSecOps Pipeline | [Jenkins](#), [Docker](#), [Trivy](#), [SonarQube](#), [OWASP](#)

- \* Provisioned an Ubuntu T2 Large Instance: Set up an EC2 instance with 30GB storage for Jenkins server and tools.
- \* Installed Jenkins, Docker, Trivy, and SonarQube container, and configured Jenkins with JDK, SonarQube Scanner, and OWASP Dependency Check plugins for comprehensive CI/CD and security analysis.
- \* Developed a Jenkins declarative pipeline for automated Docker image build, push, and deployment, enhancing deployment efficiency and reliability.
- \* Successfully built, pushed, and deployed the Docker image using the configured Jenkins pipeline, and accessed the deployed real-world application to verify the end-to-end deployment process.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, SQL (Postgres), NoSQL(Mongodb) , JavaScript , golang

**Technologies/Frameworks:** AWS ,Kubernetes, Ansible, Docker, Terraform,Jenkins, React, Express,Nextjs

**Developer Tools:** VS Code , Postman ,Git

## ACHIEVEMENTS

- \* Selected as one of "The Titan - Top 75 Coders" in the Coding Round of HackOn with Amazon Season 4
- \* **Nitk Winter of Code:** Selected for the open-source program Nitk Winter of Code, contributing to significant open-source projects and collaborating with a community of developers. [🔗](#)
- \* Achieved "Junior DevOps Engineer" status on KodeKloud Engineer with 45,000 experience points [🔗](#)