

# GOKULRAJ K

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📍 Coimbatore, Tamilnadu

🌐 gokulraj

## EDUCATION

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### Masters of Computer science (Integration Course) (2021 - 2025 )

Ramakrishna Mission Vivekananda Educational & Research Institute Coimbatore

### Diploma in Information Technology's (2018 – 2021)

Sri Ramakrishna Mission Vidyalaya Polytechnic College, Coimbatore, Tamil Nadu

### High School

April 2018 St. John's matric higher secondary school Coimbatore.

## SKILLS

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**DevOps Tools:** AWS, Docker, Jenkins, Linux, Bash, Git/Git-Hub, Terraform, Kubernetes

**Languages:** Python

**Operating System:** Linux, windows desktop & Server

**Backend:** SQL

**Scripts:** shell script & power shell

**Windows Server:** ADDS, GPO, Hyper-v server, FSMO, Windows server cluster, File sharing server

**Web-Server:** Nginx, Apache Tomcat, IIS Web Server

**Virtualization-platforms:** Hyper-v, VMware, proxmox, oracle virtual box

**Network:** HTTP, HTTPS, DNS, DHCP, Name Server, Routing, Firewall, VLANs, Loadbalancing.

**Administration:** Windows Server 2012-R2, Windows Server 2019, Windows Server 2022, Linux server Ubuntu.

## PROJECTS

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### PRIVATE STORAGE SERVER (2023 – 2024)

#### Project: Private Cloud Storage Server with TrueNAS, Nextcloud, and Cloudflare.

Set upped a secure, self-hosted cloud storage solution using TrueNAS Linux based storage server for storage management, Nextcloud for file sharing, and Cloudflare for remote access.

#### TrueNAS for Storage Management

- Configured TrueNAS as a NAS (Network Attached Storage) solution.
- Set up RAID for data redundancy and security.
- Enable snapshots and backups for disaster recovery.

#### Nextcloud for Cloud Storage

- Install Nextcloud on TrueNAS for file synchronization and sharing.
- Configure user access controls and permissions.
- Enable encryption for secure file storage.

#### Cloudflare for Secure Remote Access

- Set up a Cloudflare Tunnel to access Nextcloud remotely without exposing ports.
- Implement SSL/TLS encryption for secure data transmission.
- Optimize DNS settings for better performance.

## DEVOPS

### Project: ASG Central App (2024 – 2025)

#### Automated CI/CD Pipeline with Jenkins and Docker for Flutter app.

- Set up a Jenkins pipeline to automate the build, test, and deployment process.
- Use Docker to containerize applications and deploy them efficiently.
- Implement automated testing and security scans within the pipeline.

#### Containerized Flutter app Deployment & Monitoring on AWS

- Deployed Flutter app on AWS EC2 using Docker Compose with automated monitoring via Bash scripts .
- Secured access with Nginx reverse proxy and AWS Elastic IP, ensuring scalable and efficient traffic management.

## Kubernetes Cluster Deployment and Management

- Deploy a Kubernetes cluster on AWS using Terraform using EC2 instance.
- Configure auto-scaling and load balancing for high availability.
- Implement monitoring and logging using Prometheus and Grafana

## PROFESSIONAL EXPERIENCE

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### Associate DevOps & System Administrator – Fortigrid Pvt. Ltd. - Coimbatore, India

- Automated manual tasks using Python and Shell scripts, reducing task completion time by 40%, and increasing team productivity by 30%.
- Enhanced code deployment efficiency by automating processes with CI/CD pipelines, reducing deployment time by 50% and minimizing deployment-related errors by 25%.
- Enhanced and enforced containerization strategies using Docker and Kubernetes, improving resource utilization by 40% and reducing infrastructure costs by 20% through better management of resources and scaling.
- Reduced security risks by identifying and fixing 100+ vulnerabilities using tools like Black Duck, Coverity, and SonarQube, improving security compliance by 30%.
- Maintained and managed version control systems (Git Lab, GitHub) for over 5-10 software development projects, ensuring streamlined collaboration and efficient version tracking across distributed teams.
- Generated and maintained Ansible playbooks to automate configuration management for over 100 Edge devices, reducing manual configuration time by 50% and ensuring consistency across the network.
- Introduced Docker for containerization, optimizing resource use across 2+ environments and reducing deployment time by 50%, leading to more consistent application performance and easier scalability.
- Established custom Docker images, reducing deployment time by 20% and supporting micro-services architecture for enhanced scalability.
- Deployed Docker images on Agora-Gateway using a manifest file, reducing deployment failures by 15% and ensuring consistent application performance across environments.
- Enhanced a GitHub CI/CD pipeline that systematized application builds, cutting deployment time by 30% and reducing manual interventions.
- Implemented an Azure DevOps CI/CD pipeline that systematized application builds and deployments, improving deployment speed by 25% and streamlining report storage with pipeline artifacts.
- Leveraged DevOps and security tools to improve product reliability by 20%, reducing production downtime and speeding up vulnerability response by 40%.
- Collaborated on Jenkins-based CI/CD pipelines, reducing release cycle times by 50% and improving release reliability by 30%.
- Managed CI/CD life cycle with security integration's, identifying and resolving over 100 vulnerabilities, and improving security compliance by 30%.
- Orchestrated Kubernetes applications, improving scalability by 25% and optimizing resource utilization by 20%.
- Administered Git, GitHub, and Bit bucket, enabling cross-team collaboration that resulted in a 40% improvement in code merging efficiency.
- Optimized delivery pipeline using Docker, increasing deployment speed by 30% and enhancing consistency across environments.