

# Joshua Mathew

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As an aspiring DevOps Engineer, I bring a strong foundation in key tools like Go, Python, Node.js, React.js, Docker, Kubernetes, Helm, Datree, Jenkins, GitLab CI/CD, ArgoCD, AWS Fundamentals, IaC with Terraform and pulumi, Configuration Management with Ansible. With my solid knowledge base, I can contribute to a team by seamlessly implementing and managing reliable, scalable, and automated infrastructure, while continuously optimizing systems and processes to ensure optimal performance and high availability.

## Skills

- Languages: Go, Python, C, JavaScript, SQL
- CI/CD: Jenkins, GitLab CI, ArgoCD
- Docker, Kubernetes, Helm, Datree
- IaC: Terraform, Pulumi
- Git: GitHub, GitLab
- Frameworks/Libraries: ReactJS, NodeJS
- Linux
- Cloud: AWS

## Experience and Projects

- **Software Developer at SDC VJEC** Jan 2021 - Feb 2023
  - Developed and deployed web applications using Docker and Kubernetes.
  - Set up and upheld Linux and Nginx server configurations.
  - Automated CI/CD pipelines using GitLab CI.
  - Contributed to the development of web application utilized by a user base exceeding 200k.
- **Software Developer at Ed-Gaadi** Oct 2022 - Dec 2022
  - Utilized ReactJS, React Native, NodeJS, and Docker technologies within a logistics management project.
- **App Developer at Enfono** June 2021 - Dec 2021
  - Collaboratively employed Flutter as part of a team effort to achieve project goals.

## Projects

- **A Platform as a Service for hosting web applications** (Author, Ongoing)
  - Working on the development of a PaaS for hosting NodeJS, Flask Applications.
- **Complete CI/CD Pipeline for Java Gradle Application** (Author)
  - Implemented a CI/CD pipeline for a Java application. The pipeline is designed to deploy the application on a Kubernetes cluster.
  - Technologies Used: GitLab CI/CD, Kubernetes, SonarQube, Nexus, Helm and datree.
  - Source Code: <https://github.com/umjoshua/gitlab-cicd-gradle>

- **Automated Security Testing using Cloud-Native Architecture** (Team Lead)
  - Designed a system that leverages a CI/CD pipeline for automated deployment of the latest application version and triggers containerized security tools to conduct comprehensive automated black box testing on the deployed version, consolidating the scan results into a centralized dashboard.
  - Technologies Used: Docker, Jenkins CI/CD, Python, Git, AWS, Kubernetes.
  - Source Code: <https://github.com/DemoCorpEcom/CloudGuard>
- **Microservice Architecture and System Design with Python & Kubernetes** (Author)
  - Designed and implemented a robust microservice architecture for a scalable and efficient video to audio converter.
  - Technologies Used: Python, Docker, Kubernetes, RabbitMQ
  - Source Code: <https://github.com/umjoshua/system-design-python>
- **College Techfest Website** (Team Lead)
  - Created and deployed a website for college tech fest, enabling seamless registration for 4000+ program participants.
  - Technologies Used: ReactJS, NodeJS, ExpressJS, and MongoDB
  - Available At: <https://techfest.vjec.ac.in>
  - Source Code: [https://github.com/umjoshua/tantra\\_22](https://github.com/umjoshua/tantra_22)
- **Face recognition from low quality video using SRGAN** (Team Lead)
  - An AI tool to recognize human faces from low quality video.
  - Technologies Used: Python, OpenCV, SRGAN.
  - Source Code: [https://github.com/umjoshua/face\\_recognize\\_and\\_enhance](https://github.com/umjoshua/face_recognize_and_enhance)
- **Memories Blog** (Author)
  - A demo blog application.
  - Technologies Used: ReactJS, NodeJS, ExpressJS and MongoDB.
  - Source Code: [github.com/umjoshua/memories-blog](https://github.com/umjoshua/memories-blog)

## Education

- **B.Tech in Computer Science and Engineering** 2019 - 2023  
Kerala Technological University  
CGPA: 7.9
- **Plus Two** 2017 - 2019  
HSE Board, Govt. Kerala  
Percentage: 83

## Volunteering

- **Resource Person**
  - Conducted a hands-on session on Introduction to Git and GitHub for the students of VJEC under IEEE CS Society, VJEC.
- **Resource Person**
  - Conducted a hands-on session on Introduction to RDBMS and RDBMS applications in Vimal Jyothi College of Engineering College.
- **Resource Person**
  - Conducted a hands-on session on Basics of C for students of VJEC under CSI, VJEC.