

# Tushar Rathod

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Coding Profiles - [Leetcode](#) , [Codechef](#)

## Work Experience

**Catalinko [ Backend Intern ]**      Mar-May 2024

- Developed robust backend services including document upload, inventory management, checkout, and seamless payment integration using AWS services such as AWS Lambda for serverless architecture, AWS AppSync for GraphQL APIs, and AWS CloudFormation for infrastructure management. Leveraged AWS DynamoDB for efficient data storage and integrated PhonePe payment gateway for secure and seamless transaction while maintaining overall Industry level Coding Standards.

**Cooptem [ LLM Intern ]**      Dec 23 - Jan 24

- Enhanced generative AI model accuracy using advanced RAG techniques, outperforming baseline models. Proficient with vector embeddings and databases like Qdrant and Weaviate, reducing search time and enabling scalable vector similarity. Created for a farmer chat application with data sourced from **ICAR Pune**, facilitating real-time decision-making and increasing user engagement.

## Education

**Walchand College Of Engineering, Sangli**

Bachelor in Technology      2021-2025  
Computer Science And Engineering      8.19 cgpa

## Achievements

- Veritas** Uconnect 2.0 Winner 2024.
- Larsen & Toubro: L&T India** Createch Hackathon Runner-Up
- Secured First rank at **"Neurohack"** by **Whirlpool Corp** 2023.
- Bosch** Auto Vision X Finalist. [project-link.](#)
- Flipkart GRID** 5.0 Semi-Finalist.
- ACM Research Symposium** 2023 Winner.
- Winner at **CodeBits 2.0** Hackathon by GIT.
- Knight at [Leetcode](#) with peak rating of 2078 till date.
- ACM Annual Hackathon 2023 Finalist.
- Solved Over 1500 Problems across various coding platforms.

## Position of Responsibility

**Walchand Linux Users' Group (Mentor)**      2022-Present

- Conducted and delivered presentations on diverse technical topics within the organization, fostering the enhancement of individuals' technical skills and knowledge.
- Developed a Discord bot using Discord.js, which is utilized Everyday, saving the team hours weekly and increasing engagement on Discord.
- Featured speaker on **"The FOSS Files"** podcast, providing insightful discussions on technical subjects, including hosting the creator of **Dreamberd** in one episode, enriching the content with distinguished perspectives.

## Interests

- Esports, Linux, Cricket, Football, Music, Meditation.

## Technical Skills

- Programming Languages** - Python, Java, C/C++.
- Databases** - MySQL, MongoDB, Oracle.
- Technologies/Tools** - Git, Docker, Kubernetes, Apache Kafka, AWS SDK, AWS Lambda, CMake, Maven.
- Frameworks** - Django, Flask, node.js, FastApi, Django REST Framework.
- Cloud Platforms** - GCP, Linode, Amazon AWS.
- Certifications** - Cisco Linux Essentials, Google Cloud Skills Badge.

## Key Projects

**Microservices Mania | [Github Link](#)**

- Architected and implemented a robust microservices ecosystem using Spring Cloud, incorporating service discovery (Eureka), API Gateway, and circuit breakers (Resilience4J) to ensure high availability and fault tolerance.
- Integrated advanced features including distributed tracing with Spring Cloud Sleuth and Zipkin, event-driven architecture using Apache Kafka, and secure authentication with KeyCloak.
- Optimized deployment processes by containerizing services with Docker, implementing multi-stage builds, and setting up comprehensive monitoring using Prometheus and Grafana.

**CSI-S3-Spec | [Github Link](#)**

- Developed CSI driver enabling S3 storage integration with Kubernetes, allowing pods to mount S3 buckets as filesystems.
- Configured Kubernetes ecosystem with custom storage classes and integration with S3-compatible storage services.
- Optimized Docker for shared mounts, implemented Kubernetes Secrets, and created automated deployment scripts.

**Medi – Raksha | [Github Link](#)**

- Led backend development and API integration for a blockchain-based project during the ACM Hackathon.
- Utilized Django and Django REST Framework for backend architecture and seamless API integration, ensuring a responsive and visually appealing frontend with React.js
- Successfully integrated Web3.py and blockchain technology into the project's stack, enhancing functionality and performance with robust data persistence managed through MongoDB.

## Coursework

- Data Structures And Algorithms
- Operating Systems
- Database Engineering
- Computer Networks