Tushar Rathod

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Education

Program	University/Institution	CGPA	Year
B.Tech (Computer Science & Engg.)	Walchand College of Engineering, Sangli	8.16/10	2021-2025

Key Projects

1. Micro-Services OG

- Developed a robust e-commerce platform using micro-services architecture with different services like order, product, inventory, Api Gateway, etc.
- **Microservices Expertise:** Designed and implemented a resilient micro-services ecosystem with Spring Cloud, featuring service discovery, secure API gateway, and circuit breakers for fault tolerance.
- **Event-Driven Integration:** Leveraged Apache Kafka for seamless, event-driven communication between micro-services. Achieved efficient containerization using Docker.
- **Effective Monitoring:** Established robust monitoring and tracing solutions with Prometheus, Grafana, Spring Cloud Sleuth, and Zipkin for streamlined error detection and performance analysis.
- **Technologies:** Java Spring, Apache Kafka, Grafana, Docker, Kubernetes, resilience4j, Netflix Eureka, etc.

2. Medi-Raksha

- Significantly contributed to a blockchain-focused project during the ACM Hackathon, securing a prominent position within the top 20 teams from a competitive pool of nearly 200.
- Spearheaded the development of the project's robust backend infrastructure, ensuring seamless API integration with the REACT frontend.
- Drove innovation by incorporating blockchain technology into the project, amplifying its capabilities. Key technologies leveraged encompassed Django, Django REST Framework, and Web3.py.

3. Reverse Engineering Project

- Expertly reverse-engineered the Student Insignia app into Java source code, using apk-tool and dex-2-jar.
- Transformed the app's functionality into a self-driven Python program, ensuring cross-platform compatibility and usability.

4. WCE Assignment Helper

- Developed a website aiding students with timely assignment and event notifications, along with access to reference materials.
- Tech stack: HTML/CSS for frontend, Django for backend, and SQLite via Django models for the database.

Achievements/Awards

- Achieved 5-Star status on HackerRank, showcasing expertise in Python.
- Earned the title of Distro Maestro for representing Arch Linux in May 2022. (May/2022).
- Secured a place in the top 200 teams, out of 100,000 participants, qualifying for the Presentation Round of Flipkart Grid 5.0
- Emerged as the Runner-Up in the 2022 ACM Hackathon hosted at WCE Sangli.
- Claimed victory in Confluence 2k23, an event organized by Softa WCE.
- Codechef Starters 51 Global Rank 54.
- Attained a Global Rank of 54 in Codechef Starters 51 and an impressive Global Rank of 1 in Codechef May Long 2, boasting a peak rating of 1748.
- Solved 250+ Leetcode Problems.
- Successfully delivered a presentation on File Systems for Linux Diary 3.0.

Technical Skills

- **Programming Languages** - Python, Java, C/C++.
- **Databases** - MySQL, MongoDB, Postgres.
- **DevOPS Tools** - Git, Docker, K8s, Google Cloud, Grafana, Prometheus.
- **Cyber-Security Tools** - Ghidra, Nmap, Wireshark, Burpsuite.
- **Other Tools** - Apache kafka, Zipkin, Maven, Gradle, resilience4j.

Coursework

- Data Structure and Algorithms
- Computer Networks
- Database Engineering
- Operating Systems
- Artificial Intelligence

Position of Responsibility/Experience

- **Walchand Linux Users' Group** (*Main Technical Advisor*)

  - Conducted and delivered presentations on various technical topics within the club, facilitating the growth of individuals' technical proficiency. Worked in development of Discord bot for the Group using Discord.js.
  - Engaged as a featured speaker on "The FOSS Files" podcast, where I deliver in-depth discussions on technical subjects. Notably, one of our episodes had the privilege of hosting the creator of Dreamberd, adding a distinguished perspective to our content.

Interests

- Playing Cricket
- Playing Computer Games
- Listening to Music
- Travelling