Rohit Yadav

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EXPERIENCE

Timbr
Freelance   *December 2024-Current*
- Built the backend for bluestar fleet management using **Python Django, Mongodb**, a platform that optimizes corporate employee transportation by tracking rides, pricing, and safety, making travel safe and secure
- Reduced APIs latency by offloading heavy data work to **MongoDB's aggregation pipeline**.
- Designed the cloud infrastructure with CI/CD pipelines, making development smoother and faster.

Rizzle
Software Engineer   *February 2022 - Current*
- Architected a migration platform for medias with **Go**, processing over **500 GB of data daily**, reducing API latency by **10ms.**
- Reduced video creation time on rizzle platform from **7 to 1 minute** by optimising code leveraging ffmpeg which consequently had the positive impact on customer retention.
- Collaborated closely with the DevOps team to streamline CI/CD pipelines for multiple **Go-based Microservices for medias**, cutting down deployment times by 35% while ensuring 99.9% uptime
- Enabled disaster recovery by implementing daily automated backups using **Python scripts** for **production databases**
- Implemented robust unit and integration testing for all **Go-written modules**, achieving a test coverage of over 80%.
- Developed and indexed GeoJSON data in **Elasticsearch**, significantly improving **location search query performance.**
- Automated deployment via a CI/CD pipeline for the machine learning team using AWS SageMaker, CodeBuild, and Jenkins.
- Cut **AWS costs** by implementing S3 and ECR lifecycle policies and optimizing EC2 resources.

Pepcoding
Teaching Assistant & Software Engineering Intern   *August 2021 - January 2022*
- Taught introductory C++ and assisted in teaching **algorithms and data structures** to 500+ students over multiple batches.
- Built a real time code editor using firepad and ace editor api and firebase.
- Created interviewer-interviewee matching algorithm to connect to online users for mock interviews using **websockets**.
- Developed a video call application using opensource tools and subsequently added features of switch on/off for video and audio.
- Developed forum for Nados **coding Bootcamp's social network** to enable discussion among students on the social network.

SKILLS

- **Programming Languages:**   Golang, Python, TypeScript, JavaScript, C++, SQL
- **Technologies Frameworks:**   Node.js, Django, React, Express, ElasticSearch, Apache Kafka, Docker, Kubernetes, AWS
- **Databases:**   MongoDB, SQL (PostgreSQL, MySQL)
- **Cloud DevOps:**   AWS (EC2, S3, Lambda, SageMaker), CI/CD (Jenkins, GitHub Actions), Containerization (Docker, Kubernetes)
- **Relevant Coursework:**   Database Systems, Operating Systems, Object-Oriented Programming, Design Analysis of Algorithms

RELEVANT PROJECTS

- **Github-battle-cards** : a fun web app that generates trading cards from GitHub profiles, letting users compare stats and challenge friends; inspired by childhood WWE cards. reached **1000+ impressions organically**.
- **Model-ai** : Go-to platform that makes discovering, comparing, and implementing AI models effortless—helping users find the right AI tools with real-time insights and clear comparisons.
- **Text-pdf** : seamless tool that lets users chat with their PDFs—making document understanding faster, easier, and more interactive.
- **Github-receipt** : Developed a GitHub visualization tool, improving user analytics with an API-driven dashboard used by **500 users**.
- **Reunite** : Built a web application using **Node.js, AWS Rekognition, and MongoDB** to reconnect missing individuals with their families through AI-powered image recognition.
- **Pencil** : Built a web application that empowers users to sketch, create, and present their ideas visually with ease.

TECHNICAL PUBLICATIONS

- How to Create an AWS VPC — **Published on AWS Tip**
  Simplified the process of setting up AWS VPC, making cloud networking accessible for developers and engineers.
- Optimizing Database Performance: The Power of Indexing
  Explained indexing strategies to enhance query efficiency, reducing database response times significantly.
- Mastering Kubernetes: Understanding Resources and Limits
  Demystified Kubernetes resource allocation, helping engineers optimize deployments for scalability and efficiency.
- Setting Up Grafana and Prometheus on AWS EC2 — **Published on AWS Tip**
  Provided a step-by-step guide to setting up monitoring and observability tools, enabling real-time insights into system performance.

EDUCATION

Delhi Technological University   Delhi
B.tech In Mathematics And Computing   *2019-2023*