

VIRENDRA YADAV

Member of Technical Staff 2

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PROFESSIONAL SUMMARY

Backend Engineer with **2+ years of experience** in building high-performance systems, distributed components, and internal developer tools. Strong **DSA, problem-solving, Python/C++**, and **LLD** skills with experience in API design and large-scale backend workflows.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, SQL, Bash

Core Competencies: Problem-Solving, DSA, OOPs, LLD, Distributed Systems

Tools: Git, Linux, Jira, Gerrit, Docker, VSCode

Areas of Expertise: Backup & Replication Workflows, API Integration, Data Protection Automation, System Diagnostics, Distributed Systems, Distributed File Systems

Platforms: Cohesity, Linux

PROFESSIONAL EXPERIENCE

Member of Technical Staff 2 | Jul 2023 - Present

COHESITY | Bangalore

- **Designed and developed** multiple high-performance internal backend tools in Python to simplify trace debugging for 100+ engineers, improving debugging efficiency by 30–40%.
- Actively involved in code reviews, LLD discussions, and solving deep technical problems involving **backend workflows** and **distributed systems**.
- **Resolved** critical backend issues, including the Replication failure issue due to SHA1 mismatch leading to data loss, and fixed unit test failures, ensuring 98% code reliability and stability.
- **Developed** a Python-based trace-path analyzer and replication failure detector for the Madrox component, leveraging Iris API to identify downstream failures and flag issues, reducing debugging time by 30%.
- **Built** an SLA Expiration Tool using the Iris API to cancel queued replications with expired SLAs, improving system resource management by 15%.
- **Enhanced** replication stats visibility by adding detailed statistics (queued, completed, scheduled) to Advanced Diagnostics, improving system performance insights for all the teams.

Technologies Used: Python, C++, Linux Shell, REST APIs, Distributed Systems

Application Development Intern | May 2022 - Jul 2022

ORACLE | Bangalore

- **Developed** an **AI-powered** internal chatbot to automate employee queries, reducing manual load by 30%.
- **Integrated** chatbot capabilities with Oracle Digital Assistant tooling, improving internal workflow efficiency by 15%.
- Worked on **backend** component logic, flows, and deployment via Docker.

Technologies Used: NodeJS, YAML, Docker, Python

EDUCATION

Btech in Computer Science and Engineering | May 2023

CGPA: 8.23/10

National Institute of Technology | Trichy, Tamilnadu

PROJECTS

RAG-BASED CHATBOT | AI Application Project

Developed a context-aware RAG-based chatbot using LangChain.js and Google Gemini AI for intelligent document-driven conversations.

- **Implemented** vector-based document search and retrieval using Supabase Vector Store, enabling efficient semantic querying of uploaded documents.
- **Built** real-time streaming chat responses using Edge Functions and API route handlers, ensuring low-latency user interactions.
- **Designed** a responsive chat interface with document upload capabilities using Next.js 14 and React Server Components for optimal performance.

- **Tech:** Next.js, TypeScript, Supabase, LangChain, Gemini AI
- **Link:** <https://chatbot-ten-drab-28.vercel.app/>

Inventory & Billing Management System | SaaS

Currently developing a SaaS-based Inventory & Billing Management System using FastAPI and Next.js to automate business workflows for small enterprises.

PREP - INTERVIEW

Developed a website for sharing interview experiences and questions.

- **Implemented** user authentication using JSON Web Tokens, ensuring secure access.
- **Built** the platform using Node.js, Express.js, MongoDB, and EJS Template, enabling a seamless user experience.

POSITIONS OF RESPONSIBILITY

TREASURER, MAXIMUS'23 | *Mathematics Club – NIT Trichy*

- **Managed** budgeting, audit reporting, and club finances.
- Conducted **coding and mathematics** competitions (Math Buzz, Codemax).
- **Mentored** junior students in mathematics & programming.

HEAD of EVENTS, VORTEX'23 | *National Level Technical Symposium, CSE'NITT*

- **Led** complete event planning, technical content creation, logistics, and execution for national-level events.