Saurabh Vishwakarma

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EDUCATION

Rajiv Gandhi Proudyogiki Vishwavidyalaya University　　　　Nov 2021 – Jun 2025
Bachelor of Technology in Computer Science Engineering

EXPERIENCE

Software Development Engineer Intern　　　　Jan 2024 – Present
Blue Mango Labs　　　　*Bhopal, India*

- Developed the Robust **RESTfull APIs** using Python **FastAPI** framework for the Astrology flutter App.
- Integrated **LiveKit Streams** for **Real-time streaming** and **Calling** functionality.
- Used **AWS S3** for storing images and video files.
- Engineered scrollable livestreams using Redis and livekit webhook for efficient handling of multiple livestreams, Reducing API usage by 40%.
- Used **MQTT Protocol** with EMQX for real-time messaging and maintaining user actions. Promising **99%** consistency with the data.
- Leveraged **Domain-Driven Design** principles for a scalable architecture, optimized performance with complex SQL joins, and deployed applications on **AWS EC2 with Nginx**.
- Developed an interactive **Admin Dashboard** with cookie-based JWT authentication, utilizing Jinja templating in FastAPI.

PROJECTS

Echo Harvest | *Python, Socket.io, GI Repository, PostgreSQL, Redis*　　　　Mar 2024

- A Playerctl monitoring software to track and record **Playerctl daemon activitie**s.
- Implements real-time streaming of data using **Socket.io** for up-to-date monitoring.
- Engineered a record storing stream service with redis to store the metadata of the current track.
- Employed **PostgreSQL with SQLAlchemy** as an ORM for reliable data storage and management.

PizzaStriker backend & **Admin Panel** | *Python, FastAPI, PostgreSQL, React*　　　　Jan. 2024

- A Web app for head to Manage Strikes on Users, Users reaching certain limit user offers treat.
- Optimized app load time by 30% by applying **lazy loading technique**.
- Added Cookie based Authentication with session id.

Messaging App Replica | *React, React Router Dom, Figma*　　　　Dec 2023

- Built the Frontend using **React Js** for dynamic content loading and Vanilla CSS for styling.
- Constructed advanced routing with **React Router DOM** for enhanced navigation.
- Added lazy loading which result in **90% performance improvement**.

SKILLS

Languages: Python, Java, C, C++, JavaScript, Shell Scripting.
Frameworks: FastAPI, Flask, Django, React Js, Electron Js.
Tools and OS: Linux, UNIX shell, Bash, Git, SSH, Docker, Github Actions, Nmap.
Cloud Platform: AWS, Heroku, Renderer, Netlify, GCP
Databases: Mongodb, Redis, PostgreSQL, MySQL.