Saurabh Vishwakarma

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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.
- Utilized langchain in order to provide seemless context based response generation to the frontend.
- 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.
- Optimized the processing time by using **Tasks Orchestration using Celery**.
- Handled the deployment of our backend services on **AWS Lambda** and **EC2**.

PROJECTS

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

- A **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, Tailwind*   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.

Sonnet | *React, FastAPI, PostgreSQL, DaisyUI, Google Maps API*   Sept. 2024

- Developed a **scalable logistics application** with secure user and driver registration using **OAuth2**, handling up to **50 million users** and **500,000 drivers**.
- Integrated **Google Maps API** for seamless selection of **pickup and drop-off locations**, enhancing user experience and location accuracy.
- Implemented **real-time notifications** via **Server-Sent Events**, ensuring drivers receive instant alerts for new shipment requests.
- Enabled **real-time vehicle tracking** for live monitoring, providing transparency and security for users and drivers.

EDUCATION

Rajiv Gandhi Proudyogiki Vishwavidyalaya University   2021 - Present
Bachelor of Technology in Computer Science Engineering

SKILLS

Languages: Python, Java, C, C++, JavaScript, Shell Scripting, Lua.
Frameworks: FastAPI, Flask, Django, React Js,, Electron Js, Langchain.
Tools and OS: Linux, Git, SSH, Grafana, Nginx, Docker, Github Actions, Memcached, Kafka.
Cloud Platform: AWS, Heroku, Renderer, Netlify, Azure.
Databases: Mongodb, Redis, PostgreSQL, MySQL.