

# Saurabh Vishwakarma

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## EDUCATION

**Rajiv Gandhi Proudlyogiki Vishwavidyalaya University (NIIST)**

Nov 2021 – Jun 2025

*Bachelor of Technology in Computer Science Engineering*

*CGPA: 6.97*

## 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 SDK for real-time livestreaming and calling functionality.
- Engineered scrollable livestreams using Redis for efficient handling of multiple livestreams, Reducing API usage by 40%.
- Implemented MQTT Protocol 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.
- Integrated Docker on server-less AWS Lambda functions with SQS reducing operating cost by 90%; Integrated CloudWatch for request status and error detection.

## PROJECTS

**PizzaStriker & Backend** | *Python, FastAPI, PostgreSQL, React*

Jan. 2024

- A Web app for head to Manage Strikes on Users, Users reaching certain limit user offers treat.
- The backend is developed using the FastAPI framework and frontend is buildin React.
- Implemented HS256 encryption to ensure robust password security and decryption.
- Optimized app load time by 30% by applying lazy loading technique.

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

Mar 2024

- A Playerctl monitoring software to track and record Playerctl daemon activities.
- Implements real-time streaming of data using Socket.io for up-to-date monitoring.
- Engineered a centralized Redis data store that reduced data retrieval times from 10 seconds to under 1 second, enhancing operational efficiency.
- Employed PostgreSQL with SQLAlchemy as an ORM for reliable data storage and management.

**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.
- Used Figma software for a polished and user-friendly layout design.

## SKILLS

**Languages:** Python, Java, C, C++, React, JavaScript, Shell Scripting, Rust.

**Frameworks:** FastAPI, Flask, Django, PyGoObject, React Js, Electron Js.

**Tools and OS:** Linux, UNIX shell, Bash, Git, SSH, Docker, Github Actions, Nmap.

**Cloud Platform:** Google Cloud Platform, Amazon Web Services, Cloudflare, Firebase

**Databases:** Mongoddb, Redis, PostgreSQL, MySQL.