SURAJ KUMAR JHA

Full Stack Web-Application Developer | Mobile Application Developer

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LinkedIn: LinkedIn-Profile | GitHub: GitHub-Link | Portfolio: Portfolio-Link

SUMMARY

Driven and detail-oriented Full Stack Developer with experience in designing and delivering scalable, user-focused web and mobile applications. Skilled in end-to-end development, from planning and design to deployment and optimization. Adept at problem-solving, collaborating with cross-functional teams, and creating efficient solutions to meet business objectives. Passionate about continuous learning and leveraging technology to create impactful solutions.

EXPERTISE

Full Stack Web-Application Development | Mobile Application Development | Micro-Services (Node.js) | Version Control (Git) | Frontend Development | Backend Development

PROFESSIONAL EXPERIENCE

FULL STACK DEVELOPER | Optimus Technologies | South Jakarta, Indonesia   May 2024 – September 2024

As a **Full Stack Developer** intern at Optimus Technologies, I worked on designing and developing scalable web applications using Next.js, FastAPI, PostgreSQL, and Python. I collaborated with cross-functional teams to create efficient back-end services, optimize database queries, and ensure seamless integration between application layers. This role enhanced my technical expertise in back-end development, database management, and building RESTful APIs, providing valuable real-world experience.

EDUCATION

BACHELOR'S DEGREE | Bachelor of Computer Applications | Indira Gandhi National Open University (IGNOU)

2022 – 2025

PROJECTS

Swift-Ride (Ride Sharing Web Application)

Built a Full-Stack ride-sharing platform using **(Node.js + Express (with TypeScript)), Kafka, Redis, Docker, MySQL, Socket IO, Next.js, Leaflet maps, Prisma ORM**. The application is based on microservice architecture and equipped with features such as live location tracking, ride matching, and ride status updates via Socket IO.

Implemented **PostgreSQL geospatial queries with a bounding box mechanism** to efficiently find **nearby captains**, reducing database query time **by 8–10x (to ~10ms)**.

Utilizing Kafka for asynchronous service communication, Redis for low-latency data operations, and Docker for environment isolation and scalability. The frontend, built with **Next.js**, delivers a smooth and responsive user experience. Project showcases end-to-end system design, performance optimization, and real-time data handling.

Realtime Collaborative Whiteboard Web-App

Developed a real-time whiteboard app using **Next.js**, **Express**, **MongoDB**, and **Socket.IO** allowing users to collaborate via a shared meeting code. Users can draw shapes, and add images, texts, and sticky notes, customize and reposition elements, and erase as needed, with all updates synchronized in real-time for all users. The app also supports in-room chat for seamless communication and provides live notifications when users join or leave. Whiteboards can be saved, reopened, and edited later, enhancing flexibility and collaboration.

Event Management Web-App

Developed an event management application using **Angular, FastAPI,** and **PostgreSQL** where users can create, book, and manage events, with integrated ticket printing functionality. Event creators must pay a certain fixed fee via **Razorpay** before listing their events on the platform. Attendees can then book tickets by paying the price set by the event organizer, also using the **Razorpay** payment gateway. The app ensures secure payment processing for both event creators and attendees, while providing seamless event creation, ticket booking, and ticket printing features to enhance the overall experience.

Realtime Chat Web-App

Developed a real-time chat application using **Next.js**, **Express**, **MongoDB**, and **Socket.IO**. The app enables seamless communication through private messages and group chats, with real-time message synchronization for all participants.

SKILLS

Frontend -> HTML, CSS, Tailwind CSS, JavaScript, TypeScript, React, Next.js, Angular, Material UI
Backend -> Node.js, Express, FastAPI
Databases -> PostgreSQL, MySQL, MongoDB

Architecture -> Microservices, Monolith
Mobile Development -> React Native
Others -> Docker, Redis, Kafka
Programming Languages -> Java, C++