Suraj Kumar

Backend & Real-Time Systems Engineer

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Professional Summary

Backend and real-time systems engineer focused on distributed architectures and autonomous systems. Experienced in building low-latency event-driven platforms, telemetry pipelines, and mission-critical backend services. Strong foundation in systems design, cloud-native deployments, and simulation-driven validation.

Technical Skills

Languages: C++, TypeScript, Python
Backend: Node.js, Express, Flask, Hono, Prisma
Distributed Systems: Kafka, Redis, Redis Pub/Sub, WebSocket
DevOps / Cloud: Docker, Nginx, AWS, Cloudflare, GitHub Actions, CI/CD
Databases: PostgreSQL, MongoDB
Frontend: React, Next.js, Tailwind CSS
Other Tools: Git, WebRTC, REST APIs, Electron

Projects

Zapier Integration Platform — *TypeScript, Node.js, Kafka, Docker, PostgreSQL*　　　　　　GitHub
- Architected distributed automation platform using Kafka-based microservices for scalable workflow execution.
- Designed modular connectors and triggers for cross-service automation.
- Deployed containerized services with Docker and managed traffic via Nginx for high throughput.

Orvia — Real-Time Encrypted Chat Platform — *Next.js, TypeScript, Redis, WebSocket*　　　　Website
- Engineered secure real-time chat platform for 200+ users using Redis Pub/Sub and WebSocket.
- Implemented end-to-end encryption, ephemeral messaging, and live translation.
- Optimized backend event handling to achieve sub-100ms latency.

Focusfy — Productivity Manager — *Next.js, Node.js, PostgreSQL, Prisma*　　　　　　　　GitHub
- Developed backend supporting task, schedule, and habit tracking.
- Integrated Telegram, Discord, and Gmail APIs for automated notifications.
- Designed scalable PostgreSQL schemas and optimized query performance.

Professional Experience

Backend UAV Systems Engineer – Drone Tech Lab　　　　　　　　　　　　　Feb 2026 – Present
Remote, Delhi
- Architecting backend infrastructure for autonomous UAV operations, ingesting real-time telemetry and ensuring reliable mission control.
- Built workflows for manual waypoint injection and direct FC mission uploads enabling autonomous execution.
- Integrated ArduPilot SITL with Gazebo for end-to-end simulation validation.
- Prototyping a computer-vision–based Follow-Me system using OpenCV and YOLO.

Backend Developer – ClothBuddy (Startup)　　　　　　　　　　　　　　Dec 2024 – Feb 2025
Greater Noida, India
- Developed RESTful APIs and integrated PostgreSQL for analytics and data management.
- Containerized services using Docker and deployed via Nginx.
- Implemented CI/CD workflows for automated testing and deployment.

Education

B.Tech in Computer Science (2023 – Present), Expected 2027
Galgotias University, Greater Noida, Uttar Pradesh

Remote Collaboration

- Experienced in async remote collaboration across time zones.
- Implemented CI/CD pipelines and GitHub Actions for automated deployment.
- Collaborated via structured code reviews and documentation practices.