

# Suraj Kumar

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## PROFESSIONAL SUMMARY

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Full-stack engineer passionate about building scalable, real-time systems. Skilled in React/Next.js, Node.js, Redis, Docker, and PostgreSQL with hands-on experience in full-cycle development, cloud deployment, and automation. Adept at designing efficient APIs, optimizing performance, and delivering production-ready applications.

## TECHNICAL SKILLS

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

## PROJECTS

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- Zapier Integration Platform** — *TypeScript, Node.js, Kafka, Docker, PostgreSQL* GitHub  
– Built a custom automation platform using **Kafka-based microservices** for distributed workflow execution.  
– Developed modular **connectors and triggers** enabling seamless cross-service data automation.  
– Deployed containerized microservices via **Docker + Nginx**, achieving 40% faster task throughput.
- Orvia** — **Real-Time Encrypted Chat Platform** — *Next.js, TypeScript, Redis, WebSocket* Website  
– Developed a secure real-time chat app serving **200+ active users** with **Redis Pub/Sub** and WebSocket.  
– Implemented **end-to-end encryption** for ephemeral messaging with file sharing and live translation.  
– Optimized socket event handling, reducing latency to under **100ms**.
- Focusfy** — **Productivity Manager** — *Next.js, Node.js, PostgreSQL, Prisma, TypeScript* GitHub  
– Created a full-stack productivity tool for managing tasks, schedules, and habits.  
– Integrated **Telegram, Discord, and Gmail APIs** for automated reminders and alerts.  
– Implemented progress tracking and visual dashboards using **PostgreSQL + Prisma**.
- Autonomous Drone Ground Control System (GCS)** — *Python, React, Flask, OpenCV, YOLOv8* GitHub  
– Built a **real-time GCS** enabling telemetry visualization, mission planning, and waypoint navigation.  
– Integrated **YOLOv8 detection** for human tracking and autonomous payload operations.  
– Streamlined flight mode control (**AUTO, GUIDED, RTL**) for autonomous drone operation.

## PROFESSIONAL EXPERIENCE

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- Backend Developer** — **ClothBuddy (Startup)** Dec 2024 – Feb 2025  
*Greater Noida, India*  
– Developed **RESTful APIs** and integrated **PostgreSQL** for analytics-driven data management.  
– Containerized full-stack system using **Express.js, React, and Docker**, deployed via Nginx.  
– Collaborated with 4 developers to build Git-based progress dashboards with CI/CD pipelines.
- Web Developer** — **University Technical Club, Galgotias University** Sep 2024 – Present  
*Greater Noida, India*  
– Developed a full-stack hackathon portal (Next.js + Tailwind CSS) for 500+ registrations.  
– Implemented team management and real-time event tracking using serverless APIs.

## EDUCATION

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**B.Tech in Computer Science and Engineering** 2023 – 2027  
**Galgotias University**, Greater Noida, Uttar Pradesh  
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks

## LEADERSHIP & ACTIVITIES

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- Technical Head** — **Galgotias Drone Center**  
– Led drone R&D initiatives including **flight control, mission planning, and autonomous tracking**.  
– Organized and managed drone workshops, mentoring 10+ students in UAV software systems.
- Member** — **TechnoJam (Coding Club)**  
– Conducted hackathons and mentoring sessions on **full-stack development** and **DevOps**.