Gaurav Pratap Singh

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🌐 Portfolio +91-9565152960

Education

SR Institute of Management and Technology, Lucknow   Aug 2021 – Jun 2025
B.Tech in Computer Science Engineering   CGPA: 7.5

Sanskar Global School, Pratapgarh, UP   2020 – 2021
Senior Secondary (Class XII) – 89%

Brass International School, Pratapgarh, UP   2018 – 2019
High School (Class X) – 91%

Technical Skills

Frontend: HTML5, CSS3, JavaScript (ES6+), React.js, Next.js Tailwind, Bootstrap

Backend: Node.js, Express.js, RESTful APIs, JWT, OAuth, Server/Hosting, HTTPS

Database: MongoDB, MySQL, Firebase

AWS: EC2, IAM, VPC, RDS, Subnet, ELB, Cost Management

Dev Tools: Git, GitHub, GitLab, CI/CD, Postman, RazorPay

Others: XML (Android), ESP-32, Arduino, Raspberry Pi, AI Tools, ML Integration, Model Training

Soft Skills: Communication, Leadership, Public Speaking, Critical Thinking, Teamwork

Experience

Aviotron Aerospace Pvt. Ltd   Jan 2025 – Present
Software Developer Engineer / Web Developer Intern – Noida, Uttar Pradesh

- Built and maintained production-grade applications using React.js, Next.js, Node.js, Express.js, and MongoDB.
- Developed responsive and user-centric interfaces with reusable React components, improving UI consistency and reducing redundancy by 40%.
- Integrated RESTful APIs and secure authentication (JWT, Clerk) for seamless data flow and user management.
- Provisioned and configured AWS EC2 instances, SSL certificates, VPC networking, and CI/CD pipelines (GitHub Actions) for automated deployments.
- Optimized frontend performance with lazy loading, code splitting, and asset compression.
- **World Skill Challenge 2025 (flagship project under Aviotron):**
  - Designed and deployed the official website worldskillchallenge.com using Next.js 14 (App Router), Tailwind CSS, Framer Motion, and MongoDB.
  - Implemented **Razorpay Payment Integration** with OAuth and Webhook handling for secure transactions, duplicate prevention, and dynamic success redirection.
  - Integrated Zoho Forms with server-side signature verification, hidden fields, and duplicate registration prevention.
  - Solved critical issues: webhook 500 errors, Razorpay environment misconfigurations, MongoDB pooling failures, and payment data storage bugs.
  - Documented environment variables, webhook flows, and deployment guides for long-term maintainability.

Aviotron Aerospace Pvt. Ltd (AeroBay)   Jan 2025 – Jun 2025
Web Developer Intern – Noida, Uttar Pradesh

- Built responsive interactive web apps using React.js, REST APIs.
- Ensured cross-device compatibility and reusable UI components.
- Assisted in AWS EC2 setup, SSL, and staging environment deployment.
- Contributed to frontend documentation for onboarding and knowledge sharing.

Projects

Chat App   Live Link: Chat-App
MERN Stack, WebSocket

- Real-time chat app with instant messaging and private rooms.
- Implemented Socket.IO, secure login/register, and MongoDB backend.

VitalScans.AI   Live Link: VitalScans
Next.js, Node.js, Firebase, Teachable Machine, OpenAI API

- AI-powered tool for X-ray/MRI detection of pneumonia, TB, fractures.
- Integrated Teachable Machine models and Firebase logging.

NeuroSketch (AI Drawing for Parkinson's)   Live Link: NeuroSketch
HTML, CSS, JavaScript, Firebase, Canvas API

- Web tool for detecting Parkinson's symptoms via sketch/tap/voice tests.
- Firebase for session and spiral pattern storage.

ANPR System with Raspberry Pi
OpenCV, Raspberry Pi, Next.js

- Built license plate detection with OCR using OpenCV.
- Displayed results on a Next.js dashboard.

Certifications & Research

- Data Analytics – ICT Academy (Infosys Foundation)
- Data Science with Python – IBM
- Android Development – Techpile Technology Pvt. Ltd.
- Web Development – Apna College
- Co-Author – Research paper: *Kernel Paradigms: A Comprehensive Analysis...*, IJRPR (Vol. 5, Issue 4)

Achievements & Extracurricular

- Volunteer & Member – CodeXCrew: Organized coding events, hackathons, and workshops.
- Zonal Cricket Winner & Team Captain – Leadership, teamwork, and strategy.
- Zonal-Level Badminton Achievements.
- Published Poet and Open Mic Performer – 5+ stage performances.
- Public Speaker – Delivered presentations at tech and creative events.