

Tushar Singh

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SUMMARY

- Full-stack engineer with 2+ years experience building high-traffic web applications using Python, TypeScript, FastAPI, Django, and React/Next.js.
- Skilled in scalable backend systems, responsive UI, cloud deployment (AWS, Docker), and web scraping.
- Active competitive programmer with strong problem-solving and algorithmic thinking.

EXPERIENCE

- **VibeMonitor [Website]** Aug 2025 – Present
Software Engineer (Backend & DevOps) Remote, Intern
 - Designed and maintained scalable backend services using **Python (FastAPI)**, integrating **Slack**, **Grafana**, and **GitHub Apps** to enable automated incident and RCA workflows.
 - Implemented **OpenTelemetry**-based tracing and logging with **gRPC** ingestion pipelines and **ClickHouse** for high-performance observability data storage.
 - Automated deployments via **GitHub Actions** and containerized microservices on **AWS ECS** using **Docker**.
 - Building an **AI-driven Root Cause Analysis (RCA) agent** leveraging **LangChain** and the **ReAct methodology**, including dataset generation for model evaluation and accuracy monitoring.
- **RoastNest [Website]** April 2025 - July 2025
Backend Engineer Remote, Intern
 - Built backend infrastructure with RESTful APIs, integrating 3+ third-party services to extend core functionality.
 - Created and managed GitHub Apps for feedback and authentication workflows, while ensuring database reliability with zero downtime.
 - Contributed to frontend development with Next.js, improving user experience and reducing page load time by 20%.
- **Sergul Computer Institute [Website]** Sept 2024 - Feb 2025
Fullstack Developer Remote, Freelance
 - Developed back-end service for the admin panel to manage student data and daily operations (supporting 2000+ active users).
 - Built and maintained the frontend, deploying the application on GoDaddy (cPanel).
 - Implemented SSL security with Certbot and managed certificate renewals.

PROJECTS

- **Padhle Bhaiii (1000+ Users)** [GitHub Deployed Link](#)
A note-sharing platform for students with responsive UI, OAuth authentication, and data management.
 - Built with secure OAuth 2.0 authentication system with responsive design, serving 200+ active student users.
 - Implemented efficient state management using Redux and optimized note sharing workflows.
 - **Stack Used: Javascript, React, Supabase, TailwindCSS**
- **Commodity Management Backend** [GitHub](#)
A backend server for product management with token-based authentication.
 - Developed product management with token-based authentication, defining user groups with varied permissions.
 - **Stack Used: Python, Django Rest Framework, REST API**

SKILLS

- **Languages:** Python, JavaScript, TypeScript, C++
- **Web Technologies:** Django, FastAPI, Selenium (Automation), Node.js, React.js, Next.js, Express.js, TailwindCSS
- **Database Systems:** PostgreSQL, MySQL, MongoDB, SQLite, Clickhouse
- **Cloud & DevOps:** AWS, Docker, Git, GitHub, Linux, GitHub Actions, CI/CD
- **Other Tools:** Postman, Prisma, Knex, Langchain, pytest, BeautifulSoup, OpenTelemetry, Grafana, Supabase

EDUCATION

- **KIET Group of Institutions - AKTU** 2022 - 2026
B Tech, Computer Science Delhi NCR

LEADERSHIP, ACHIEVEMENTS, AND VOLUNTEERING

- Led the team and **won the first Hackathon** organized by FOSSCU-K
- Volunteered in Backend Development and served as Outreach Lead at FOSSCU, an Open-Source Community
- Solved 250+ DSA problems using object-oriented programming languages. [Competitive Programming Portfolio](#)