Simran Gupta
Software Developer | GitHub: https://github.com/spadezac

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Education

**VIT Bhopal University	CGPA: 8.94**	Bhopal, Madhya Pradesh
BTech, Major in Computer Science; Minors in Cyber Security and Digital Forensics	Expected May 2026
**12th Standard	St. Michael's Academy	CBSE	Percentage: 88%**	Bettiah, Bihar	Jul 2021
**10th Standard	St. Joseph's School	CBSE	Percentage: 93.2%**	Bettiah, Bihar	Jul 2019

Skills

- **Programming & Software Design**: Java (Expert), Python, C++, JavaScript, Data Structures & Algorithms, Object-Oriented Design, Operating Systems, DBMS, Complexity Analysis, Problem Solving, System Design, RESTful API Design, Microservices Architecture, Unit Testing, TDD, Scalable Architecture, SDLC
- **Backend, Cloud & DevOps:** Node.js, Express.js, MongoDB, MySQL, PostgreSQL, Docker, AWS (Lambda, EC2, S3), GCP, Git, GitHub, Linux, CI/CD pipelines, Version Control Systems,
- **AI/ML:** AI Workflow Automation, n8n, AI Model Fine-Tuning, Prompt Engineering, TensorFlow, Backend Automation
- **Tools & Frameworks:** Postman, Firebase, WebSockets, JWT, Metamask, Web3.js, Solidity, Next.js, React.js, AI, Blockchain, Database, Backend Systems, Web Applications

Work Experience

The Red Users| Intern — Feb 2025 – March 2025

- Diagnosed 20+ vulnerabilities in production-like environments by conducting OWASP-based audits using ZAP and Wireshark, strengthening system-level reliability.
- Developed Python-based test automation for injection attacks, reducing manual testing by 60%, improving system protection.

India Space Lab | Tech Intern — Dec 2024 – Jan 2025

- Engineered 5+ CanSat/CubeSat prototypes by simulating orbital paths in Python to achieve 93% accuracy in trajectory predictions.
- Automated technical documentation with Java and LaTeX, reduced manual effort by 40%, demonstrated system-wide deployments and streamlining workflow across subsystems.

Projects

CraftConnect – Local Community & E-Commerce Platform| Full Stack Developer — Jan 2025 – March 2025

- Orchestrated a 10-member cross-functional team to build a MERN stack-based hyperlocal platform, translating complex service-side business problems into scalable backend design.
- Designed RESTful APIs supporting real-time location-based service discovery and booking workflows, improving match accuracy by **35%**; implemented object-oriented modules with TDD and unit-tested code.
- Integrated **JWT authentication**, **Stripe payments**, and **WebSocket-based job tracking** into a microservices architecture; deployed on **AWS Lambda/EC2** via CI/CD, achieving **99.9% uptime** and robust system reliability.

Trust-Ease Certify | Backend Developer — Feb 2024 – May 2024

- Spearheaded backend development for a blockchain-based certificate verification system by designing Ethereum smart contracts and secure APIs, reducing certificate fraud by **60%**.
- Integrated cryptographic techniques and JWT-based authentication to streamline certificate issuance, reducing response time by **52%**. Designed modular, unit-tested code with MongoDB and Web3.js integrations to handle **1K+ transactions/sec**, ensuring system scalability and reliability.

Extracurricular Activities

Google Cloud Career Launchpad | APAC Member — Nov 2024 - Present

- Collaborated on intensive cloud deployment workshops; built and released projects using best practices in GCP and Firebase.

TEDxVITBhopal Club — Feb 2023 – Dec 2024

- Architected and launched the official club website using React.js and Node.js, increasing online engagement by **40%**

Achievements

- **Reliance Foundation Scholar:** Ranked in the top 5% among 100K+ applicants for academic excellence.
- **Google Cloud Skill Boost:** Completed hands-on labs in **cloud infrastructure**, **CI/CD** & **database services** on GCP.

ADDITIONAL

Languages: Fluent in Hindi, English

Certifications: Certified Ethical Hacker (CEH) – May 2025, IBM DevOps, Agile & Design Thinking – Apr 2025, IBM DevOps Fundamentals – Apr 2025, IBM DevOps Fundamentals- Apr 2025, Introduction to Generative AI Learning Path (Google)- Dec 2024, Postman API Fundamentals Student Expert(Aug 2024)