Rudra Patel

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Professional Summary

Results-driven Computer Science graduate specializing in data analytics and full-stack development. Adept at critical thinking and problem-solving, with a proven track record of architecting innovative solutions for complex systems. Proficient in Python, SQL, AWS, and data visualization tools (Power BI, Tableau). Combines technical expertise with strong communication and leadership skills, demonstrated through successful project delivery and extracurricular involvement. Eager to apply analytical abilities to drive data-informed decisions.

Education

Vellore Institute of Technology, Bhopal
B.Tech in Computer Science

- CGPA: 8.38 / 10.0
- Relevant Coursework: Data Structures and Algorithms, Data Analysis, Machine Learning, Database Management Systems, Computer Networks, Web Development

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript, SQL, HTML5, CSS3, R
- **Data & Cloud Technologies:** AWS, DynamoDB, Power BI, Tableau, Advanced Excel, Machine Learning, Data Visualization
- **Developer Tools & Architecture:** Git, GitHub, API Development, System Architecture, Version Control
- **Security & Networking:** AES-256 Encryption, SHA-256 Hashing, Wireshark, Metasploit, Nmap, Penetration Testing, Network Security

Projects

CorpFin-360 | Financial Analytics Platform
- Architected a full-stack financial analytics platform using React, Node.js, and Python ML services, establishing robust API communication.
- Implemented real-time data processing, achieving a 40% improvement in system response time.
- improved a service abstraction layer and backend context to streamline API interaction, significantly accelerating developer onboarding.
- Engineered automated environment configuration and health monitoring systems, ensuring 99.5% system uptime.

Air Arcade | Remote Game Streaming Application
- Developed a full-stack application enabling remote game streaming and control sharing across multiple devices.
- constructed interactive UI with React.js and WebRTC to deliver live video streaming with sub-100ms latency.
- Optimized data transmission protocols, reducing bandwidth consumption by 30% while maintaining smooth gameplay.
- created and built responsive UI components, ensuring seamless compatibility across desktop and mobile devices.

Data Defender | Secure File Vault System

- made a secure file vault in Python, implementing robust AES-256 encryption and SHA-256 password hashing.
- Integrated two-factor authentication (2FA) using passwords and OTPs to fortify access control.
- Designed a user-friendly interface compliant with modern cybersecurity standards and best practices.
- Architected granular access control mechanisms to guarantee data integrity and confidentiality.

Certifications & Professional Development

- Wells Fargo Commercial Banking Job Simulation – Financial Technology Solutions (2025)
- Accenture Nordics Consultant Job Simulation – Business Process Optimization (2025)
- AWS APAC Solutions Architecture Virtual Experience – Cloud Architecture & Scalability (2025)
- Citi Sales and Trading Virtual Program – Market Research & Analytics (2025)
- Computer Networking Certification – Network Protocols & Security (2024)

Leadership & Extracurricular Activities

- **Mood Indigo, IIT Bombay** – Squad Member (Dec 2023 – Present): Collaborated with a large-scale team to plan and execute Asia's largest college cultural festival, honing organizational and logistical skills.
- **MUN Club, VIT Bhopal** – Volunteer (Mar 2024 – Jan 2025): Sharpened communication, public speaking, and negotiation skills by actively participating in simulations of the United Nations model.
- **Igniters Club, VIT Bhopal** – Volunteer (Jan. 2023 —- Feb. 2023): Contributed to campus entrepreneurship initiatives by organizing workshops and networking events for student founders.