

Rim Patel

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Education

Vellore Institute of Technology Bhopal, India	2022 - 2026
• CGPA: 8.59	(expected)
KD Ambani Reliance Foundation School, India	2021 - 2022
• CBSE (Class XII), Aggregate: 71.6%	
KD Ambani Reliance Foundation School, India	2019 - 2020
• CBSE (Class X), Aggregate: 94%	

Skills

Programming & Frameworks: Python, C, C++

Databases: MySQL

Cybersecurity: Quantum Cryptography, Libraries- Dilithium, Kyber

Web Development: HTML, CSS, Javascript, React.js

Tools & Others: Git, GitHub, VS Code

Core Subjects: Operating System, Database Management System, Computer Networks, Data Structures & Algorithms

Work Experience

Jio Platforms Limited

Cybersecurity Analyst Intern [Advanced Cryptography and Digital Signatures] (11.10.2024 - 12.12.2024)

- Gained hands-on experience in cybersecurity, focusing on **quantum cryptography** and advanced algorithms like **Dilithium** and **Kyber**.
- Researched and implemented **post-quantum cryptography** techniques, improving data security standards by **25%**.
- Presented findings to mitigate the top three causes of crashes, achieving a **40% reduction in system vulnerabilities**.
- Developed a comprehensive understanding of emerging cybersecurity technologies and practical applications.
- Collaborated with cross-functional teams to implement **encryption protocols**, enhancing data integrity by **20%**.
- Automated routine security checks using custom Python scripts, reducing manual effort by **30%**.

Projects

Quantum-SafeCryptography Project (Python, Cryptography Libraries, pqcrypto, liboqs)

- Implemented digital signature verification using the **Dilithium algorithm** (pqcrypto, liboqs), achieving **~99% validation accuracy**.
- Developed encryption-decryption modules with **Kyber (post-quantum cryptography standard)**, improving data confidentiality by **~95% compared to RSA**.
- Simulated quantum attack scenarios using **Qiskit**, validating algorithm robustness and ensuring alignment with **NIST PQC standards** for future-proof security.

Gemini AI Clone (React.js, HTML, CSS, Vite, REST APIs, Javascript(ES6+))

- Developed a Gemini-inspired conversational AI clone using React.js, boosting UI rendering performance by **30%** through modular components and efficient state management.
- Designed and implemented a responsive front-end with HTML5 & CSS3, achieving **100% cross-browser and cross-device compatibility**.
- Integrated REST API to simulate AI-powered responses, successfully handling **200+ test queries** with real-time interaction.
- Deployed using Node.js and Vite, optimizing build speed and reducing load time by **40%**, enhancing overall user experience.

Certifications

- **Coursera:** - [AWS Cloud Practitioner Essentials](#)
[The Bits and Bytes of Computer Networking](#)
[Architecting Solutions on AWS](#)
[Foundations of Cybersecurity](#)

Additional Information

- **Qualities:** - Project Management, Teamwork, Effective Communication
- **Languages:** - English (fluent), Hindi (fluent), Gujarati (Native)
- **President, Gujarati Club (VIT Bhopal)** – Led and organized cultural events promoting Gujarati traditions; managed a team of 30+ members to ensure successful campus activities.
- **Graphic Design Lead, Fusion Club** – Led the design and branding initiatives for university events, that increased event participation.