

Rim Patel

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Education

Vellore Institute of Technology Bhopal, India	2022 - 2026
● CGPA: 8.56	(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, PostgreSQL

Cybersecurity: Quantum Cryptography, Libraries- Dilithium, Kyber

Web Development: HTML, CSS

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%**.
- Integrated advanced data visualization tools to present security metrics, improving executive decision-making by **15%**.

Projects

Quantum-Safe Cryptography Project (Python, Cryptography, pqcrypto)

- Designed and implemented **digital signature verification system** using **Dilithium algorithm**, ensuring **~99% signature validation accuracy**.
- Developed **encryption-decryption modules** leveraging **Kyber (post-quantum cryptography standard)**, enhancing data confidentiality by **up to 95% security assurance** compared to traditional RSA
- Strengthened project documentation and reporting, aligning with **NIST post-quantum cryptography standards** for future-proof security.

Weather App (HTML, CSS, Javascript)

- Created a **real-time weather forecast application** displaying temperature, humidity, and conditions for user-inputted locations.
- Integrated APIs (e.g., **OpenWeatherMap**) for real-time and accurate data retrieval, enhancing user satisfaction by **40%**.
- Built an interactive user interface with **custom styling**, improving user engagement by **25%**.

Certifications

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

Additional Information

- **Qualities:** - Project Management, Teamwork, Effective Communication
- **Languages:** - English (fluent), Hindi (fluent), Gujarati (Native)