

# Rim Patel

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## Education

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| <b>Vellore institute of Technology Bhopal, India</b> <ul style="list-style-type: none"><li>CGPA: <b>8.56</b></li></ul>                       | <b>2022 - 2026</b><br>(expected) |
| <b>KD Ambani Reliance Foundation School, India</b> <ul style="list-style-type: none"><li>CBSE (Class XII), Aggregate: <b>71.6%</b></li></ul> | <b>2021 - 2022</b>               |
| <b>KD Ambani Reliance Foundation School, India</b> <ul style="list-style-type: none"><li>CBSE (Class X), Aggregate: <b>94%</b></li></ul>     | <b>2019 - 2020</b>               |

## 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)