





# Vishnu Nair

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## EDUCATION

**Vellore Institute of Technology , Vellore**

July 2019 - May 2023

*Bachelor of Technology in Computer Science and Engineering*

*CGPA: 7.99/10*

**Delhi Private School , Sharjah**

May 2019

*Higher Secondary Certificate - CBSE*

## SKILLS

**Languages:** HTML5 , CSS3, JavaScript , Node.js , Express.js, Java

**Database:** SQL , PL/SQL , MongoDB

**Tools:** Git/GitHub , Bash Shell , VS Code

**Cloud:** AWS

## PROJECTS

**Quantum Proof chat room** | *HTML5, CSS3, JavaScript, Node.js, Express.js, socket.io, McEliece, Kyber, RSA*

- Developed a real time chatroom built solely for the reason of being resistant to quantum attacks with the use of McEliece and Krystal-Kyber algorithms
- Collaborated with my professor to work on a research project based on the resilience of quantum encryption algorithms in comparison to classic encryption algorithms
- Published a research paper with my teammate with my analysis of the same project when used with different algorithms

**Subreddit scraper - A webscraper for reddit** | *HTML5, CSS3, JavaScript , Node.js, Express.js, puppeteer*

- Developed a **Web scraper**, to help extract data from any Reddit forum using puppeteer.js and save the results onto a CSV file.

**Safe Share** | *HTML5, CSS3, Node.js, Express.js, MongoDB, multer, crypto.js*

- Developed Safe-Share, an application that can be used to share a file securely peer to peer with the help of AES encryption

## EXPERIENCE

**Sutherland Global Services** | *Associate Engineer - Application Developer*

August 2023 – Present

- Received comprehensive training in SQL, PL/SQL, and AWS technologies.
- Contributed to NextGen Healthcare, an American health information technology organization, by automating processes for their Virtual Visits and PM products. Developed automating tools and web scrapers to streamline operations and enhance efficiency.

## PUBLICATIONS

**Comparing the resilience and efficiency of post-quantum and asymmetric encryption**

May 2023

- We conducted a study evaluating post quantum cryptography algorithms based on key parameters such as memory consumption, encryption time, decryption time, and key generation time. Our aim is to assess the potential utility of these algorithms in practical contexts.

## CERTIFICATIONS

**Hackerrank - SQL (Basic) Certificate**

Feb 2023

**AWS - AWS Certified Cloud Practitioner (CLF)**

Aug 2021