

Varun V Kudli

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EDUCATION

BE in CS, JSS Academy of Technical Education

2022-2026

Current GPA – 8.49

SKILLS

Languages: Python, JavaScript, C/C++, Java

Database: MySQL, MongoDB

Frontend: ReactJS, HTML, CSS

Backend: NodeJS

Others: Git, Cybersecurity, Wireshark

Tools: NumPy, Matplotlib, Pandas

PROJECTS

- **KabFree**

- Implementation of a blockchain based reputation system in a Carpooling
- Leverages 5ire tokens and their transfer integrated with Brave wallet to ensure security and legitimacy of passenger-driver reviews.

- **Q-Secure-Chat**

- This was made for my college Mini Project for the 5th Semester. Modern Chat Applications use End-to-End Encryption, which typically uses algorithms like RSA, which can be broken with enough quantum computing power.
- Generates RSA public and private keys.
- Finds coprime integers to facilitate quantum order finding.
- Implements Quantum Fourier Transform (QFT) and its inverse.
- Uses PennyLane for simulating quantum circuits.
- Attempts to factor a given integer using Shor's algorithm.

- **OS Memory Analyzer**

- A comprehensive tool that analyses the virtual memory behaviour of an entire operating system, compatible with any operating system.
- The tool provides insights into system-wide memory usage, potential bottlenecks, and optimization opportunities.