

Arpit Gupta

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nightmare-tech



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OBJECTIVE

Dedicated Computer Science Engineering student seeking a challenging opportunity to apply and expand my skills in full-stack software development, cloud computing, and systems programming. Eager to contribute to innovative projects and gain hands-on industry experience.

WORK EXPERIENCE

- **IGT Solutions**, Gurgaon, Haryana | May 2025 - July 2025
Intern

PROJECTS

Secure Storage | Python, Flask, HTML, CSS, Cryptography

github.com/nightmare-tech/secure_storage

- A CLI password manager for secure everyday use.
- Implemented PBKDF2 & SHA-256 encryption
- Master password authentication
- Emphasized usability & security

Secure Storage | Python, Flask, HTML, CSS, Cryptography

github.com/nightmare-tech/secure_storage

- Developed "Secure Storage" Web Application: file storage and management
- Prioritizing data security and ease of use.
- Implemented AES-256 Encryption

ROSS (Rust Operating System from Scratch) | Rust

github.com/nightmare-tech/ross

- Developed minimalist OS from scratch:
- Built using Rust to explore memory-safe systems programming and OS architecture fundamentals.
- Leveraged Rust's memory safety
- Ongoing project: Deepening expertise in OS internals (process scheduling, memory allocation, I/O systems).
- Designed as a learning platform: Experimenting with kernel development, hardware interaction, and Rust's ownership model.

SKILLS

- **Languages:** C/C++, Bash, Python, Rust
- **Miscellaneous:** Git, SQL, Linux, Cybersecurity, Networking
- **Front End Development:** HTML, CSS
- **Back End Development:** Python (Flask)
- **Soft Skills:** Time Management, Work Ethic

EDUCATION

- **VIT Bhopal University**, Madhya Pradesh, India | Sep 2022 – Aug 2026)
B.Tech, Computer Science Engineering
- **Bosco Public School**, New Delhi, India | Mar 2022
High School

CERTIFICATES

- **An Introduction to Artificial Intelligence, NPTEL** | May 2024