

Arpit Gupta



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github.com/nightmare-tech



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OBJECTIVE

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

PROJECTS

PWD_Vault

Python, Bash, Cryptography

github.com/nightmare-tech/PWD_Vault

- Developed PWD_Vault: A CLI-based 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
- Integrated User Authentication
- Designed Intuitive Interface

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

B.Tech, Computer Science Engineering

Sep 2022 – Aug 2026

GPA: 8.41/10

Bosco Public School

New Delhi, India

High School

Mar 2022

CERTIFICATES

An Introduction to Artificial Intelligence | NPTEL

May 2024