Pragy Jha

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EDUCATION

VIT University, Bhopal   Oct 2022 - Jun 2026

Computer Science and Engineering with spec. in Cyber Security and Digital Forensics   **CGPA: 8.30**

Technical Skills

C++, C, Java, Python, HTML-CSS, Dart 2.0, Data Structures and Algorithms, OOPs, Linux, Windows, Flutter, Android-SDK, Qt, Burpsuite, Nmap, Wireshark, MetaSploit, NetCat, Nessus, Docker, Git.

Projects

KeySafe Vault   Oct 2023 - Nov 2023

- Developed a tiered encryption vault for the secure storage of sensitive user data, including documents and credentials; boosted data security by 75% and decreased security breach events by 60% over six months.
- Deployed role-based access control across the organization's cloud infrastructure using IAM policies, restricting access to sensitive data, and reducing potential security breaches by 40% within 1 month.
- Led the front-end development using Flutter, resulting in a 20% improvement in app performance.
- Tech Stack: Flutter, NodeJS, Python, ExpressJS, MongoDB.

CryptoMancer: Multi-Algorithm File & Image Encryption Suite   Sep 2025 - Nov 2025

- Built a robust desktop app enabling encryption/decryption of files and images with Caesar, OTP, DES, 3DES, and AES-256, offering both classical and modern block ciphers in a user-friendly GUI.
- Reduced manual file-scrambling workload by 85% for teams; typical encrypt/decrypt tasks now completed in under 6 seconds per file.
- Designed secure key generation, streamlined cross-format (binary/hex/text) handling, and automated image scrambling, boosting reliability and error coverage for 100+ use cases.
- Distributed as a standalone Windows executable for hassle-free installation and team adoption; positive feedback cited ease of use and confidence in data privacy.
- Tech Stack: C++, Qt6 Widgets, STL, stb_image, algorithms.

SnapSpeak Translator   Mar 2024 - Mar 2024

- Engineered SnapSpeak Translator to enable seamless image-to-text translation through automation with Google Translate; reduced manual transcription time by an average of 5 hours per week across team projects.
- Developed an intuitive user interface that enabled team members to upload images and receive translations with minimal effort, reducing image upload time by 30% and improving user satisfaction by 25%, based on team feedback.
- Tech Stack: Python, Selenium.

Certifications

- AWS Academy Cloud Architecting, Amazon Web Services Training and Certification
- AWS Academy Cloud Foundations, Amazon Web Services Training and Certification
- Foundations of Cyber-Physical Systems, NPTEL
- MongoDB Database Administrator, FacePrep

EXTRA-CURRICULAR

Event Team Core Member - Data Science Club   2023 - 2024

- Organized and led data science club events, including coding competitions, workshops, and peer mentoring initiatives, fostering technical upskilling and collaborative learning among members.