

PRATHAM CHAUHAN

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SUMMARY

Computer Science undergraduate with a strong foundation in **automation, data analysis, and software engineering principles**. Possesses hands-on experience with **Python, C++, SQL, and Bash scripting** through projects in **cybersecurity and blockchain**. Proven ability to develop prototypes, analyze workflows, and deliver secure, high-performance **automation solutions**.

EDUCATION

Thapar Institute of Engineering and Technology

Patiala, Punjab

B.E Computer Science and Engineering | Current **CGPA: 7.15 /10**

2022-2026

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, SQL, Bash/Shell Scripting
- **Technologies & Tools:** Git, Docker, Linux, Flask, Streamlit, Scikit-learn, NLTK, Bettercap, Wireshark
- **Concepts:** Cyber Security, Ethical Hacking, Object Oriented Programming

WORK EXPERIENCE

Blockchain Intern – ELC Summer Internship, TIET

Jun'25–Jul'25

- Architected a **tamper-proof auditing system** on Solana using Merkle Tree batching to secure high-volume Windows Event Logs, achieving **99% cost reduction** compared to standard blockchain anchoring.
- Built a full-stack verification prototype (FastAPI/Vanilla JS) featuring "Zero-Touch" Managed Identity authentication and a real-time dashboard for instant cryptographic log auditing.

Cybersecurity Summer Trainee – Acmegrade

Aug'23–Oct'23

- Executed a simulated MITM attack to attempt **HSTS Hijacking**, configuring **Bettercap** to confirm modern HSTS policies successfully blocked HTTPS downgrades.
- Automated network sniffing and redirection via custom caplets, **streamlining repeat test execution by 50%**.

PROJECTS

Secure Webhook Ingestion API | Python, FastAPI, Docker, SQLite

Dec'25–Jan'26

- Engineered a secure API that validates data integrity using signatures and ensures messages are processed exactly once.
- Containerized the app with Docker and added system metrics to monitor health and latency.

ChatMinds – Flask-based Chatbot | Python, Flask, HTML, CSS, JSON

June'24–May'24

- Engineered a context-aware chatbot using **TF-IDF & Cosine Similarity** to handle unstructured queries with high accuracy.
- Optimized backend for **serverless deployment (Vercel)** and implemented dynamic suggestion chips to enhance UX.

CERTIFICATIONS & ACHIEVEMENTS

- [AWS Academy Cloud Security Foundations](#)
- [AWS Academy Cloud Security Builder](#)
- Bronze medalist in district-level Karate tournament.

LEADERSHIP & VOLUNTEERING

Organizer & Anchor – Alumni Meet, Sunflower Model High School

Nov'23–Dec'23

- Led and co-hosted the alumni meet with a 4-member team, managing logistics and engaging 100+ attendees.

Volunteer – Pratigya Abhiyan

Oct'22–Present

- Served as Class In-charge for Class 7, managing a team of 30 volunteers.
- Conducted educational activities for 70+ underprivileged children and organized various events.