

# PRATHAM CHAUHAN

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## SUMMARY

Computer Science undergraduate with a strong foundation in software engineering principles. Possesses hands-on **experience with** C++, Python, and web development using Flask through various academic and personal projects in cybersecurity and blockchain. Highly motivated to contribute to scalable, secure, and high-performance software development.

## 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
- **Technologies & Tools:** Git, 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

- Developed a secure logging prototype on the **Solana network** by implementing **Merkle tree batching** to verify 500+ Windows Event Logs for tamper detection.
- Created a **Streamlit** interface for real-time verification of Merkle roots, displaying results in under 5 seconds per batch.

### 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

### SMS Spam Classifier | Python, Scikit-learn, Streamlit, NLTK

Aug'24–Nov'24

- Developed an **NLP pipeline** using TF-IDF vectorization and logistic regression, achieving approx. 95% accuracy
- Utilized **NLTK** for preprocessing and deployed the model with a **Streamlit** web interface.

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

June'24–May'24

- Developed a chatbot application following the **SDLC** and integrated structured intent-response mapping using **JSON**
- Designed an interactive web interface using **Flask, HTML, and CSS**.

## CERTIFICATIONS & ACHIEVEMENTS

- [AWS Academy Cloud Security Foundations](#)

- [AWS Academy Cloud Security Builder](#)

- Raised CGPA from 4.77 to 7.15. 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.