

Tushar Choudhary

+91-8789417832 | tushar123913@gmail.com | linkedin.com/in/tushar337 | github.com/TUSHAR91316

SUMMARY

Motivated Computer Science undergraduate proficient in Python and SQL with hands-on experience in academic projects involving APIs. Familiar with problem-solving and debugging through project development. Eager to learn new technologies and contribute to a software engineering team.

EDUCATION

SRM Institute of Science and Technology <i>Bachelor of Technology in Computer Science (IT); CGPA: 8.4</i>	Chennai, India August 2022 – May 2026
Kendriya Vidyalaya <i>Class XII (PCM, CBSE); Percentage: 70.2%</i> <i>Class X (CBSE); Percentage: 82.6%</i>	Patna, India Apr 2021 – Jun 2022 Apr 2019 – Jun 2020

TECHNICAL SKILLS

Languages: Python, SQL
Core Technologies: Flutter, REST APIs (FastAPI)
Data Tools & ML: Scikit-learn, Streamlit, Data Preprocessing
Databases & Infrastructure: SQLite, Git, Linux Basics

PROJECTS

Konvert – Secure File Conversion App | [Live Link](#) | *Flutter, FastAPI, Python* Sep 2025 – Jan 2026

- Developed a secure mobile application using **Flutter** and **Dart** with a RESTful backend powered by **FastAPI** and Python.
- Implemented a hybrid processing engine to convert images locally on-device and process documents via the backend.
- Integrated an external security API (VirusTotal API) to automatically scan uploaded files for malware.
- Utilized local device storage to securely maintain conversion history and provide an offline-first user experience.

Network Intrusion Detection System (NIDS) | *Python, Scikit-learn, Streamlit* Apr 2025 – Dec 2025

- Engineered a data processing pipeline in Python to parse raw network packet logs for anomaly detection.
- Trained a machine learning model using **Scikit-Learn** to classify network traffic with high accuracy on the UNSW-NB15 dataset.
- Created a simple, interactive user interface using **Streamlit** to visualize threat analysis data for end-users.

TCP Chat Server Application | *Python, Sockets, Threading* October 2024

- Developed a multi-threaded chat server in Python capable of handling multiple concurrent client connections.
- Utilized core **Threading** concepts, including mutex locks, to ensure message synchronization and avoid race conditions.
- Implemented basic TCP/IP socket programming to facilitate reliable communication over a local network.

LEADERSHIP & EXPERIENCE

Team Centinels (Cybersecurity Club), SRM <i>Head of Defensive Security</i>	Chennai, India February 2025 – October 2025
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- Coordinated and organized "Code Craft Chase", a hackathon, managing student participation and event execution.
- Delivered beginner-level sessions on cybersecurity fundamentals and demonstrated the use of Wazuh for basic log monitoring and analysis to 30+ students.

CERTIFICATIONS

Fortinet Certified Associate in Cybersecurity	Fortinet Feb 2025 – Feb 2027
Computer Network and Internet Protocol	NPTEL
Oracle Cloud Infrastructure Foundations Associate (1Z0-1085-24)	May 2025 Oracle
Google Cybersecurity Specialization	Jan 2025 Google
	Jun 2024