

PRABHNOOR SINGH

Software Developer

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SUMMARY

Penultimate-year Computer Science student with **2+ years of experience** building full-stack, cloud, and desktop applications. Proven ability to take features from **research → design → implementation → demo**, across web, cloud, and platform services. Seeking an opportunity to contribute with scalable, reliable, and user-centric product engineering.

PROJECTS

T-Drive (Electron Telegram App)

<https://github.com/prabhnoor25/T-Drive>

- Shipped a cross-platform Electron app, **solved production packaging issues**, and ensured **stable IPC flows** and **cross-platform synchronization**.
- Handled session persistence & native module rebuilds, cutting app crashes by **>70%** compared to dev builds.

CodeScope

<https://github.com/prabhnoor25/codescope>

- **Developed custom data structures** (Linked List, Hash Map, Graph) to efficiently store and manage parsed code metadata, enabling rapid search operations.
- Implemented graph algorithms (DFS) for dependency analysis.
- Optimized search performance using hashing and tree-based indexing to achieve faster response time and demonstrate **scalable search across 10K+ LOC**.

Backup GUI for Ubuntu (rsync + tar)

- Built the backend for desktop backup tool with Express enabling incremental/local/remote backups.
- Added disk usage stats, ETA, and bandwidth estimation, reducing user uncertainty by **>50%**.
- Integrated Gemini AI to suggest critical files for backup, designed for **scalability**, capable of handling large backups across remote servers

CERTIFICATIONS & ACHIEVEMENTS

Member, Chitkara ACM Student Chapter

Oct 2024 - Present

- Led project tasks, code reviews, and peer mentoring

Sept 2024

Participant Smart India Hackathon

- Proposed an AI integrated web app to improve local tourism.

Certificate in Cloud Computing Foundations from Duke University via Coursera

Certificate in Networking Fundamentals through Cisco Networking Academy program

TECHNICAL SKILLS

- Languages: Python, C, C++, Java, JavaScript
- Frontend: React, Next.js, Tailwind, HTML, CSS
- Backend/Cloud: Flask, NodeJS, REST APIs, AWS concepts
- Desktop: Electron
- Tools: Git
- Concepts: OOP's, Computer Networks, DBMS, Operating Systems