

# ARSHDEEP SINGH CHAHAL

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## PROFILE

Computer Science undergraduate with hands-on experience building C++ utilities, CLI applications, and lightweight Windows tools. Strong foundation in system-level programming, data structures, and clean, efficient code. Actively seeking software engineering internships to apply skills in real-world environments.

## PROJECTS

### 1. Resume/Portfolio Website - HTML/CSS, JS

Engineered a personal portfolio website to present projects, technical skills, and professional information. Implemented responsive layouts using **HTML** and **CSS**, with interactive functionality developed in **JavaScript**. The site is hosted on **GitHub**, leveraging **version control** and static hosting for streamlined deployment and maintenance.

- Designed and developed a responsive portfolio website using HTML, CSS, and JavaScript
- Implemented client-side interactivity and clean UI layout
- Deployed on GitHub Pages with version control for streamlined updates

### 2. Banking app - C++

This project is a command-line banking application developed in **C++** as a learning exercise to strengthen core programming and logic-building skills. The application implements basic banking operations and stores user data in an **encoded (encrypted)** format to improve security. Emphasis was placed on **clean logic, structured design, and safe handling of sensitive information**. Future plans include integrating a **Node.js** backend to transition the application to a server-based architecture.

Key Features:

- Command-line interface (**CLI**) banking system
- Core logic implemented entirely in **C++**
- User data stored in **encoded/encrypted** form
- Designed as a foundation for future client-server integration

### 3. ABove - C++, Win32 API

**ABove** is a minimalist Windows utility that allows users to pin any window as Always on Top via a hotkey. It is designed to run silently in the background while consuming **negligible system resources**. Unlike feature-heavy alternatives such as PowerToys, this utility focuses exclusively on window pinning, making it suitable for users who want a **lightweight, purpose-built** solution **without unnecessary overhead**—particularly on systems where memory efficiency is a priority.

Key characteristics:

- **Near-zero** CPU usage during idle operation
- **Minimal** memory footprint
- Automatically registers itself as a **startup** application on first launch for user convenience.

## EDUCATION

**B.Tech (CSE)** — Bhai Gurdas Institute of Engineering and Technology (2024–2028)

Class XI–XII — Khalsa Public School (2022–2024)

Class X — Alpine Public School (2022)

## TECHNICAL SKILLS

- Programming Languages: **C/C++, JavaScript**
- Web Technologies: **HTML, CSS**
- Frameworks: **React.js**

## TECHNICAL ACTIVITY

- Solved **100+** DSA problems on **LeetCode** across arrays, strings, and basic DP
- Maintained **40+** GitHub **commits** across personal projects using Git-based workflows