

ANKUSH KAPOOR

+91 8108405154 | ankushhkapoor.vercel.app | work.ankushkapoor1626@gmail.com
github.com/ankushhKapoor | linkedin.com/in/ankushhKapoor

EDUCATION

Vidyalankar Institute of Technology

Bachelor of Technology in Computer Engineering

Mumbai, India
Sept 2024 – Present

- First Year - CGPA: **10.0**
- Second Year, currently ongoing

Seth Hirachand Mutha School (CBSE Board)

Kalyan, India

- Class XII - **86%** 2024
- Class X - **91%** 2022

EXPERIENCE

Open World Holidays Framework (Open Source Contributor)

Jan 2025 – June 2025

Python Framework

Remote — [GitHub PRs](#)

- Ranked **7th out of 2300+ contributors** nationally in Google Winter of Code (WoC) 2024.
- Added public holidays for **India, Nepal, and Mongolia**, covering fixed and variable dates, and lunar calendar-based rules.
- Implemented **Hindi** and **Mongolian** translations to improve localization and accessibility.
- Wrote and maintained comprehensive **unit tests** to validate dynamic holiday calculations.
- Contributed to a large-scale **Python-based database** and participated in detailed code reviews.
- Technologies: **Python, Git, GitHub, Data Processing, Open Source Collaboration**

PROJECTS

KapoorVM (Custom Virtual Machine in C) | C, Linux, GCC, Git

[GitHub](#)

- Built a 16-bit virtual CPU with a custom instruction set and 65 KB of virtual memory.
- Implemented basic opcodes to move immediate values into registers and run a test program.
- Designed modular VM components for clean separation of CPU, memory, and instruction handling.

Alloc (Custom Memory Allocator in C) | C, Linux, NASM, GCC

[GitHub](#)

- Created a 32-bit allocator mimicking `malloc()` and `free()` over a 1 GB virtual heap.
- Implemented `alloc(bytes)` to allocate memory in words by taking size in bytes as input.
- Added `destroy()` for secure deallocation with memory zeroing to prevent data leakage.
- Built packed headers, manual tracking, macros for KB/MB/GB allocation, and a `show()` debugger.

CodeNexus (Custom Code Editor for Python) | Python, PyQt5, QScintilla, Jedi

[GitHub](#)

- Developed a tab-based code editor with syntax highlighting, file explorer, and autocomplete.
- Implemented a threaded AutoCompleter using `jedi` and a custom `QsciLexer`.
- Enabled one-click code execution via subprocess in CMD.
- Integrated file actions with `QTreeView` and added keyboard shortcuts.

Email Unsubscriber (Inbox Automation Tool) | Python, IMAP, SMTP, BeautifulSoup, requests

[GitHub](#)

- Automated email unsubscription by scanning Gmail inbox via IMAP and locating unsubscribe links.
- Parsed links using BeautifulSoup and text-matching logic.
- Visited each link via `requests` and logged success/failure locally.
- Used `dotenv` to securely manage credentials.

EXTRACURRICULAR ACTIVITY

Our Tech Community (OTC) | ourtech.community

Jul 2025 – Present

Core Team Member

- Part of the core organizing team for **OTC CatchUp**, a weekly online event where tech enthusiasts share ideas, showcase projects, and hold discussions.
- Manage and grow a vibrant, inclusive, and tech-driven community.

SKILLS

Languages: C, Python, Java, MySQL, HTML, CSS

Tools & Environments: Git, GitHub, Linux (Ubuntu/WSL, VirtualBox), VS Code, Neovim, tmux, IntelliJ IDEA

Frameworks: Tailwind CSS