Niranjhan SU

✉ niranjhansu@gmail.com   🔗 niranjhansu.vercel.app   in niranjhan-su   ⓞ Niranjhan   </> Niranjhan LC

Education

B.Tech in Computer Science with a Specialization in Cyber Security	GPA: **8.5/10**
Shiv Nadar University Chennai	Aug 2023 - Present
CBSE Class 12th Boards	Grade: **94%**
Kendriya Vidyalaya Nagercoil	Apr 2021 - Apr 2023

Projects

Clox and Jlox - Lox Language Interpreters ↗
Java, Make, C — Feb 2025

- Developed Lox language interpreters where **lexers, parsers, compilers, and the VM** are made from scratch.
- Implemented advanced language concepts such as **OOPS**, visitor pattern, lexical scoping, and **recursion**. Conducted **low-level profiling and optimization** to improve interpreter performance.

Wombra - Webnovel Viewer for Web, Desktop, and Mobile ↗
Android Studio, Kotlin, Flask, PyQt, BeautifulSoup — Oct 2024

- Developed **cross-platform apps** to scrape, store, and read web novels offline using BeautifulSoup.
- Designed an interface optimized for **long-form reading** on mobile and desktop devices.

ScheduleMaker - Timetable Maker Backend ↗
TypeScript, Next.js, Node.js — Aug 2024 - Present

- Built the back-end for an **automated timetable generator**.
- Designed an **algorithm** to allocate class schedules while handling faculty and lab slot preferences.

Fou - Terminal Text Editor ↗
C, Make — Jul 2024

- Designed and built a **Vim-like terminal text editor** with support for **undo/redo operations** and cursor navigation for both keyboard and mouse navigation.
- Implemented an optional **piece table**, improving input handling and UI updates by up to **70%**.

Technical Skills

Languages: C, C++, Python, Java, TypeScript, Bash

Frameworks & Libraries: Flask, Django, PyQt, Express.js, Node.js, Swing/AWT

Tools: Git, Make, Android Studio, GDB, Valgrind, SQLite, PostgreSQL, MongoDB, Firebase, Wiregaurd

Certificates:

- **Programming in Modern C++ (NPTEL)** ↗ - Ranked in the **top 5%** of Course Takers. Gained expertise in **C++23**, including smart pointers, inline functions, and advanced object-oriented concepts.
- **Social Networks (NPTEL)** ↗ - Studied the dynamics of social interactions and **Graphing Networks**.

Awards and Experience

Event Management and Volunteering *Aug 2023 - Present*

- Organized and hosted **Cryptic Cadavers**, a Capture the Flag challenge during Invente, the Campus Tech Fest with the Coding Club.
- Conducted **EditaCTF 2.0** with my CTF team, Edita, to introduce and engage **20%** of the first and second year **student body** in cybersecurity challenges.

Top 1% Global Ranking on TryHackMe ↗	*TryHackMe*
3rd Place - Password CTF	*VITC 2024*
Hackathon Finalist - Envithon 2024, **Devhouse 2025**	*2024 - 2025*
Hackathons Participated - SIH 2024, PEC Hacks 2024, Khacks 2025	*2024 - 2025*