

Niranjhan SU

✉ niranjhansu@gmail.com ☎ +91 8122152806 🌐 niranjhansu.vercel.app in niranjhan-su 📺 Niranjhan

Personal Summary

Niranjhan can build robust backend systems, automate workflows, and design efficient algorithms. With expertise in C/C++, Python, Java, and web technologies, he develops optimized, secure applications. His experience spans database management, cybersecurity, and systems programming, with top rankings in CTF competitions and a strong foundation in problem-solving.

Education

Shiv Nadar University Chennai

B.Tech in Computer Science with a Specialization in Cyber Security

Aug 2023 - Present

GPA: 8.5/10

Technical Skills

Programming Languages: C++, C, Java, Python, JavaScript, TypeScript

Tools & Technologies: GDB, Valgrind, Ghidra, Flask, Android Studio, Git, Linux, Godot, Burp Suite

Projects

Lox Interpreter [🔗](#)

- Developed Lox language interpreters that include lexer, parser, compiler, and a VM from scratch.
- Implemented advanced language concepts such as OOPS, visitor pattern, lexical scoping and recursion. Also conducted low-level profiling and optimization to improve interpreter performance and efficiency
- **Technologies Used:** Java, Make, C

Wombra - Webnovel Viewer for Web and Mobile [🔗](#)

- Developed a cross-platform application for scraping, storing, and reading web novels offline.
- Implemented efficient content extraction and parsing algorithms using BeautifulSoup. Designed a responsive user interface optimized for comfortable long-form and long-term reading on mobile, desktop and a browser.
- **Technologies Used:** Android Studio, Kotlin, Flask, PyQt, BeautifulSoup

Fou - Terminal Text Editor [🔗](#)

- Designed and built a minimalistic Vim-like terminal text editor using a piece table data structure for efficient text manipulation, undo/redo operations and efficient cursor Navigation.
- Implemented real-time UI updates, and optimized memory allocations for smooth performance.
- Technologies Used: C, Make

Awards and Experience

Volunteer - YRC, Coding Club

Aug 2023 - Present

- Contributed 80+ hours to the Youth Red Cross (YRC) wing, leading and organizing events.
- Organized and hosted Cryptic Cadavers, a Capture the Flag (CTF) challenge during Invente, the tech fest.
- Conducted EditaCTF 2.0 with the Coding Club, engaging 20% of the first- and second-year student body in cybersecurity challenges.

Top 1% Global Ranking on TryHackMe [🔗](#)

TryHackMe

2nd Place - Enigma Quest CTF [🔗](#)

SSN - 01 Mar 2024

3rd Place - Password CTF [🔗](#)

VITC - 29 Jan 2024

Certifications

Social Networks - NPTEL [🔗](#)

- Studied the dynamics of social interactions and network structures.
- Applied graph algorithms to identify patterns and insights in social connections.

Programming in Modern C++ - NPTEL [🔗](#)

- Ranked in the top 5% of course participants. Gained proficiency in modern C++ features, including smart pointers, object-oriented programming principles, and advanced use cases.