

# Niranjhan SU

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## Personal Summary

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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

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**Shiv Nadar University Chennai**

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

*Aug 2023 - Present*

*GPA: 8.5/10*

## Technical Skills

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

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

## Projects

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### 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

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### 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

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### 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.