Niranjhan SU

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Professional Summary

Niranjhan SU is a passionate and skilled software developer with expertise in C/C++, Python, Java, and web technologies. He has hands-on experience with frameworks like Flask and Django, database management with MongoDB, and cybersecurity tools such as Ghidra and Burp Suite. A dedicated problem solver, he has hosted successful CTF events and secured a top 1% global ranking on TryHackMe, along with podium finishes in multiple CTF competitions. His interests span software development, cybersecurity, and systems programming.

Education

Shiv Nadar University Chennai   *Aug 2023 - Present*
B.Tech in Computer Science with a Specialization in Cyber Security   *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 editing.
- Managed real-time UI updates and optimized memory allocation.
- **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.
- Led 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.