Niranjhan SU

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Education

Shiv Nadar University Chennai

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

Technical Skills

Programming Languages: Python, C++, C, Java, Python, TypeScript Frameworks: Flask, Django, PyQT, Swing/AWT, Express.js, Next.js, React Tools: Git, PostgreSQL, MongoDB, MySQL, Android Studio, GDB, Valgrind

Projects

Clox and Jlox - Lox Language Interpreters

o Developed Lox language interpreters where lexers, parsers, compilers and the VM is made 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
- o Technologies Used: Java, Make, C

Wombra - Webnovel Viewer for Web, Desktop, and Mobile

• Developed applications for multiple platforms to scrape, store, and read Web novels offline.

- Implemented efficient content extraction and parsing algorithms using BeautifulSoup. Designed a responsive user interface optimized for long-form and long-term reading on mobile devices, desktops, and browser.
- o Technologies Used: Android Studio, Kotlin, Flask, PyQt, BeautifulSoup

ScheduleMaker - Timetable Maker Backend

• Built the backend for this College Project to generate class timetables, using Next.js API routes for handling REST API requests servicing React Based Front End.

- It automates timetable generation, while handling includes lab and faculty slot preference-based allocation.
- Technologies Used: TypeScript, Next.js, Node.js

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.

- o Implemented real-time UI updates, and optimized memory allocations for smooth performance.
- Technologies Used: C, Make

Awards and Experience

Event Mangement and Volunteering

Aug 2023 - Present

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GPA: 8.5/10

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- Organized and hosted Cryptic Cadavers, a Capture the Flag challenge during Invente 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 - 29 Jan 2024

Finalist - Envithon, An Environmental Hackathon

SNUC - 21 Feb 2024

Participated - SIH 2024, PEC Hacks 2024, Khacks 2025

2024-2025

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

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• 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.