





Niranjhan SU

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Education

B.Tech in Computer Science (Specialization in Cyber Security)

Shiv Nadar University Chennai, Semesters I–IV

Senior Core Member, Cyber Security Vertical, Coding Club

Aug 2023 - Present

CGPA - **8.55** 

Experience

Software Development Intern - Maheswari Electrical Agency

May 2025 - Aug 2025 

- **FullStack Development:** Engineered backend features for a Shopify app, leveraging **PostgreSQL** and **Vapi-AI** for follow-up calls on abandoned checkouts integrated with **Shopify MCP APIs for context based phone calls**.
- **Automated Messaging Interface:** Developed automation for Instagram and WhatsApp using **browser automation and Electron**, reducing manual messaging time by 80% and projecting **INR 1,00,000 in savings**.
- **FastAPI Microservice:** Built a microservice with 99.9% uptime (testing environment), streamlining product information retrieval for customer support and reducing query resolution time by 60%.

Course Development Intern – FISST Academy

Jun 2025 - Aug 2025 

- **Cybersecurity Course Design:** Delivered labs and structure for **two cybersecurity modules** (Blockchain Based Authentication, Analysis of Ransomware with Machine Learning), for a total of **25+ labs & 40+ hours of content**.
- **Lab Automation:** Automated lab environment setup via shell scripting, **reducing setup time by 90%**.

Projects

Clox and Jlox - Lox Language Interpreters (*Java, Make, C*)

- **Complete Language Interpreters:** Developed completely scratch, including **Lexers, Parsers, and Compilers**.
- **Advanced Language Features:** Integrated features like **OOPS, closures, lexical scoping, and recursion**.

ScheduleMaker - Timetable Generator and Editor (*TypeScript, Next.js, Node.js*)

- **Constraint-Based Algorithm:** Engineered a timetable generation algorithm that **handles 20+ constraints** to enable single-click generation, **processing 50+ faculty schedules and 15+ lab slots** with zero conflicts.
- **Time Optimization:** Reduced timetable creation time by over 90% with features like real-time editing, lecture swapping and custom scheduling for post- and pre-scheduling granular control.

Welt - Webnovel Viewer (*Android Studio - Java, Kotlin, Flask, PyQt, BeautifulSoup*)

- **Multi-Platform Applications:** Designed and deployed **Android and Desktop applications** (Java, Kotlin, Flask, PyQt, BeautifulSoup) to automate the **scraping, storage, and organization** of webnovel content.
- **Optimized Reading Interface:** Designed an **interface optimized for long-form reading**, featuring automatic missing chapter downloads to preserve content and **synchronize reading progress**.

Fou – Terminal Text Editor (*C, Make*)


- **Vim-like Editor:** Designed a Vim-like terminal text editor **supporting comprehensive undo/redo, rapid cursor navigation, and multiple editing modes** with both keyboard and mouse control.
- **Performance Optimization:** Engineered a **custom piece table structure** to improve performance by 70%.

Technical Skills


Languages: Python, Java, C/C++, TypeScript, JavaScript, Kotlin, Shell Scripting

Backend & Databases: Flask, FastAPI, Node.js, Express.js, Next.js, PostgreSQL, Gradle

Technologies: Git, Make, Android Studio, Valgrind, PyQT, BeautifulSoup, Puppeteer, LeakCanary, Docker

Certificates: **Programming in Modern C++ (NPTEL)**  - Ranked in the **top 5%** of Course Exam Takers.

Awards and Achievements

Open Source: Resolved critical memory leaks in AnkiDroid (2M+ users), improved stability. 

LeetCode: Contest Knight (**Rating: 1853, Top 10%**), solved 600+ algorithm problems. 

Advent of Code 2024 - Completed all 50 challenges on AoC 2024 

Co-organized EditaCTF 2.0 - A Capture The Flag competition with 100+ participants. 

Feb 2025

Top 1% Global Ranking on TryHackMe with 100+ rooms solved 

Mar 2024 - Present

Hackathon Finalist: Envithon 2024 (SNU), Devhouse 2025 (VITC)

2024-2025