




Niranjhan SU

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Professional Summary

Aspiring software engineer with robust foundations in computer science and cybersecurity, proven through developing scalable systems in industry and open-source settings. Recognized for impactful results and leadership: **streamlined automations, contributed to large OSS projects, excelled in competitions, and consistently delivered measurable outcomes**. Eager to solve real-world problems through technical expertise and collaborative innovation.


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 - **8.54** 

Experience

Software Development Intern - Maheswari Electrical Agency

Jun 2025 - Present 

- Engineered and maintaining **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.
- Developed an **Automated Messaging Interface** for Instagram and WhatsApp using **browser automation and Electron**, **reducing** manual messaging time by **80%** and projecting **INR 1,00,000 in savings**.
- Built a **FastAPI microservice** with **99.9% uptime** (testing environment), streamlining product information retrieval for customer support and **reducing query resolution time by 60%**.

Projects

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



- 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
- Reduced timetable creation time by over 90%** implemented real-time editing with automatic conflict validation.

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



- Developed complete **Lox language interpreters** from scratch, including **Lexers, Parsers, and Compilers**.
- Integrated advanced language features like **OOPS, closures, lexical scoping, and recursion**.
- Conducted **low-level profiling** to identify bottlenecks using **Valgrind** and improving performance by over 20%.

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



- Designed and deployed **Android and Desktop applications** (Java, Kotlin, Flask, PyQt, BeautifulSoup) to **automate the scraping, storage, and organization** of webnovel content.
- 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*)



- Designed a **Vim-like terminal text editor supporting** comprehensive **undo/redo, rapid cursor navigation, and multiple editing modes** with both **keyboard and mouse control**.
- Engineered a **custom piece table structure**, boosting large file **editing performance by over 70%**.
- Developed low-level **TTY input handling using escape sequences**, achieving responsive and precise editor control.

Technical Skills


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

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

Technologies: Git, Make, Android Studio, Valgrind, PyQt, Beautiful Soup, 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. 

Team Edita co-founder (CTF team), co-organized EditaCTF 2.0 (100+ participants) 

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

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

Sept 2024 - Present

Mar 2024 - Present

2024-2025