





Niranjhan SU

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Education

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

Shiv Nadar University Chennai, Semesters I-IV

Point of Contact, Cyber Security Vertical, Coding Club

Aug 2023 - Present

CGPA - 8.54 

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, BeautifulSoup, Puppeteer, LeakCanary, Docker

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


Experience

Part Time Software Development Intern - Maheswari Electrical Agency

Jun 2025 - Present 

- Engineered and maintained **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%**.

Course Development Intern – FISST Academy

Jun 2025 - Present 

- Designed and delivered **labs and structure for two cybersecurity modules** (Blockchain Based Secure Authentication, Analysis and Detection of Ransomware with Machine Learning), for a total of **25+ labs**, **40+ hours** of instruction.
- Automated lab environment setup** via shell scripting, reducing setup time by **90%**.

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 validation to prevent scheduling errors during modifications.

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.

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) 

Sept 2024 - Present

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

Mar 2024 - Present

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

2024-2025