Niranjhan SU

Email: niranjhansu@gmail.com
Github: github.com/DrunkenCloud
LinkedIn: @niranjhan-su
Portfolio Website: niranjhansu.vercel.app
Mobile: +91 8122152806

Education

B.Tech in Computer Science with a Specialization in Cyber Security — Aug 2023 - Present
Shiv Nadar University Chennai, Semester I to III — CGPA: **8.5/10**
Point of Contact for Cyber Security Vertical of Coding Club
Co - Founder of Team Edita, a Capture The Flag Team

Work Experience

Software Intern - *Maheswari Electrical Agency* — Jun 25 - Present

- Designed and implemented alternatives to paid messaging and outreach / cold messaging solutions, successfully eliminating the need for a paid API integration. This resulted in an estimated savings of 1,00,000 INR for the company, without compromising communication efficiency or customer engagement.
- Built a microservice-style API that accepts a store's website URL and uses a browser-based AI scraping agent to extract structured data about the store—such as product categories, available discounts, and promotional banners.
- Developed and maintained Shopify a app focused on customer retention and engagement, including featres like a Vapi AI-powered follow-up calls with MCP connections to shopify stores and automated abandoned cart tracking.

Projects

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

- Addressed college's manual timetable creation challenges by designing and implementing the **back-end** for an automated **timetable generator**. It also supports editing and swapping of Lectures within generated timetables.
- Tackled complex scheduling constraints by developing a sophisticated **algorithm** that balances **faculty** availability, their class timming preferences, **lab slot preferences**, and incorporates **locking features** for fixed sessions.
- Integrated solution with Next.js frontend, successfully **reducing** timetable generation time by **more than 90%**.

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

- Developed complete Lox language interpreters from scratch, implementing **Lexers, Parsers, and Compilers**.
- Successfully integrated advanced language features like **OOPS, closures, lexical scoping, and recursion**.
- Conducted **low-level profiling** to identify bottlenecks and implemented optimizations, improving performance.

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

- Developed **cross-platform applications** to scrape web-novels using BeautifulSoup and store them to read offline.
- Created an interface specifically optimized for **long-form reading** with detection for downloading missing chapters, thus preserving content even when removed from original sources, and synchronization for reading progress.

Technical Skills

Languages: C, C++, Python, Java, Kotlin, TypeScript, Javascript, Bash, Go

Frameworks & Libraries: Flask, Django, FastAPI, Playright, puppeteer, Selinium, PyQt, Express.js, Socket.io

Technologies: Git, Make, Android Studio, GDB, Valgrind, SQLite, PostgreSQL, MongoDB, Firebase, Shopify

Certificates: Programming in Modern C++ (NPTEL) - Ranked in the **top 5%** of Course Takers. Gained expertise in **C++ 23**, including smart pointers, inline functions, meta programming, and advanced OOPS concepts.

Awards and Experience

Contributor - Ankidroid — *Apr 2025 - Present*

- Fixed memory leaks within the Android application located in page fragments and TTS Engine, **improving app stability**. Rewrote code to remove a **deprecated annotation** to align the codebase with modern standards.
- Gained hands-on experience in large-scale open-source project with 1M+ users and 1000s of contributors.

Event Management and Volunteering - Capture The Flag (CTF) — *Aug 2023 - Present*

- **Co-organized and hosted** multiple CTF events, including **EditaCTF 2.0**, which reached 100+ participants.
- Designed and deployed many challenges across fields like cyrptography, web exploitation, and reverse engineering.

Top 1% Global Ranking, and **more than 100 Rooms solved** on TryHackMe — *TryHackMe*

Contest Knight with a Rating of **1853** and more than 600 problems solved on LeetCode — *LeetCode*

Hackathon Finalist - Envithon 2024 (SNU Hackathon), Devhouse 2025 (VITC Hackathon) — *2024 - 2025*

Completed all the Challenges in Advent of Code 2024 — *Advent of Code*