NAVEEN CHANDER

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EDUCATION

Shiv Nadar University, Chennai *Aug 2024 – Jul 2028*
B.Tech – Computer Science & Engineering - Cyber Security *CGPA: 8.98 / 10*
Activities: NSO Volunteer (80+ hrs) · POC Coding Club (Cybersecurity)

Projects

MuSync | Cross-Platform Playlist Synchronization 🗗 *Aug 2025*

- Built a high-concurrency synchronization engine in **Python** and **React**, processing **500+ tracks/minute**.
- Achieved **99% mapping accuracy** between Spotify and YouTube Music using **RapidFuzz**.
- Reduced transfer latency by **60%** by implementing multi-threaded batch processing with **ThreadPoolExecutor**.
- Orchestrated the full-stack deployment using **Docker** and **Nginx**, reducing cross-environment configuration time by 80%.

Connect-Alma-Bridge | Professional Networking Platform 🗗 *Oct 2025*

- Built a full-stack networking platform connecting students and alumni, serving 500+ concurrent users with **React** and **Supabase**.
- Implemented role-based access, alumni verification, and secure interactions using **PostgreSQL RLS** and REST APIs.
- Reduced message latency by **95%** (<100ms) by engineering a real-time chat system using **WebSockets** (Supabase Realtime).
- Optimized database queries by designing a normalized schema and indexing strategies, reducing complexity by **70%**.

HookRelay | Distributed Webhook Delivery System 🗗 *Dec 2025*

- Architected a fault-tolerant webhook engine using **Node.js**, **TypeScript**, and **Redis**, achieving **<50ms** ingestion latency.
- Decoupled event ingestion from processing using **BullMQ**, ensuring system stability under high-throughput load spikes.
- Guaranteed **100% message reliability** via **exponential backoff** retry strategies and Dead Letter Queues for failed payloads.
- Secured payload integrity using **HMAC SHA-256** signing and enforced idempotency using Redis atomic keys.

Yxorp | High-Performance Reverse Proxy & Web Application Firewall 🗗 *Nov 2025*

- Engineered a zero-dependency **Go** reverse proxy handling high-concurrency traffic with **<100ms** observability latency.
- Achieved **zero cascading failures** by implementing per-backend **Circuit Breakers** with automatic half-open recovery.
- Enforced traffic fairness using a **Token Bucket** algorithm (10k+ req/min) and mitigated DoS attacks via streaming body size limits.
- Designed a lock-free metric collection system using atomic counters and a non-blocking **SPA** dashboard.

EXPERIENCE

Konstract Infratech | Freelance Web Developer *June 2025*
Designed and deployed a modern corporate website to establish the digital presence of a construction firm.

- Developed a fully responsive, high-performance user interface to showcase the company's portfolio of residential and commercial projects.
- Implemented secure client inquiry forms.

Technical Skills

Languages: Go, C/C++, Python, JavaScript,TypeScript, SQL, Bash
Backend & Systems: Node.js, Flask, Redis, WebSockets, Nginx, Docker, Git, PostgreSQL, MongoDB, Supabase
Security: Burp Suite, Metasploit, Ghidra, Wireshark
Frameworks: React, NextJS, Express, Django, FastAPI

HONORS & AWARDS

CTFs: Winners – Edita CTF 2025 (SNU Chennai); **Top 50** – Pragyan CTF 2024 (NIT-Trichy);
Top 750 Global – HackTheBox Cyber Apocalypse CTF 2025
Hackathons:
Top 175 - SIH 2025 - Secure chatting platform with analysis dashboard for defence personnel
Top 500 - Adobe Hackathon 2025 - PDF Analysis Engine