

Vinay Kumar Gond | Distributed Systems Architect & Security Researcher

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Professional Summary

Adversarial Engineer turned Defender. Architect of high-throughput distributed systems capable of processing **2M+ daily requests** against hostile API environments. Deep expertise in reverse-engineering Layer 4 (Network) and Layer 7 (Application) rate-limiting logic. Successfully engineered a system (\$500k ARR) that bypassed standard WAF protections before pivoting to build a fully compliant, behavioral-intent analysis engine. Leveraging a background in **Electronics & Communication** to apply signal processing logic to network traffic analysis. Seeking to build unbreakable infrastructure at **Cloudflare**.

Technical Arsenal

Core Competencies: Distributed Systems, Anti-Bot Evasion (Red Team), Rate Limiting Logic, API Security, Traffic Shaping, Behavioral Analysis, High-Availability Architecture.

Languages: Python (AsyncIO), JavaScript/TypeScript (Node.js), Bash, SQL, C++.

Infrastructure: Residential Proxy Networks, Load Balancing (Round-Robin/Weighted), OAuth 2.0/PKCE, Linux Hardening, Git.

Traffic Analysis: Packet Inspection, Fingerprint Spoofing (TLS/JA3), Headless Browser Orchestration.

Engineering Experience

X Lead Scraper (SaaS)

Founder & Lead Architect

Remote

2024–Present

Architected a distributed data intelligence platform that generated \$500k in revenue in 6 months.

- **High-Scale Traffic Engineering:** Designed the "Hydra" architecture, utilizing a custom request router to distribute traffic across **47 distinct API endpoints**, **247 authentication tokens**, and **1,200+ residential IPs** to mitigate IP-based reputation scoring.
- **Layer 4 Security Analysis:** Conducted a post-mortem on X's (Twitter) anti-scraping mechanisms following a legal C&D. Identified that detection occurred via **Network-Wide Pattern Recognition** (co-temporal activity graphs) rather than volumetric rate limits.
- **The Compliance Pivot (V2):** Re-engineered the entire stack to prioritize **Network Isolation**. Implemented client-side "Human Pattern Mimicry" algorithms (randomized delays, idle states) to render automated traffic indistinguishable from organic user behavior.
- **Behavioral Intent Engine:** Developed a proprietary NLP scoring system to grade lead quality based on semantic analysis of user tweets, shifting the product value proposition from "Volume" to "High Intent."

Lumique

Lead Full-Stack Developer

Remote

2024–Present

- Engineered a global digital storytelling platform focused on anonymous identity expression.
- Optimized frontend rendering performance and backend database queries to ensure sub-100ms latency.

Technical Publications & Case Studies

Nov 2025: "The \$500K Mistake: A Technical Post-Mortem on Layer 4 Network Detection"

Nov 2025: "How I Engineered a System That Made Rate Limits Irrelevant" (Published on vinaygond.github.io)

Jan 2025: "Pushing the Twitter API Beyond Its Limits" – Stress testing API thresholds.

Education

National Institute of Technology (NIT)

Bachelor of Technology (B.Tech) in Electronics & Communication Engineering

Focus: Data Structures, Signal Processing, Computer Networks, and Information Theory.

Left prior to degree conferral to pursue practical engineering challenges.

Mizoram

2017–2019

S.S.V.M. Super School

Senior Secondary Education (Class 12), CBSE Board

Completed with focus on Physics, Chemistry, and Mathematics.

Deoria, Uttar Pradesh

2014