Rounak Neema

Email: rounakneema414@gmail.com — Phone: +91-7049533405 — GitHub: https://github.com/rounakneema — Portfolio: https://rounakneema.in — LinkedIn: https://linkedin.com/in/Rnks23

Cybersecurity Engineer — Security Operations — Threat Detection — Backend Security

Summary

Cybersecurity-focused Computer Science student with hands-on experience building security tools, threat detection platforms, and network scanning solutions using Go and Python. Strong foundation in Linux, networking, vulnerability assessment, log analysis, and secure backend development with practical open-source contribution to a production-grade distributed database project.

Skills

Languages: Go (Primary), Python, Java, Bash, SQL
Cybersecurity: Network Security, Vulnerability Assessment, Threat Detection, Log Analysis, Incident Response, OWASP Top 10, Threat Modeling
Networking: TCP/IP, DNS, HTTP/S, VPN, Service Fingerprinting, Network Reconnaissance
Systems & Cloud: Linux, Windows, Docker, AWS, SQLite, PostgreSQL, Git, GitHub
Development: REST APIs, Backend Development, Concurrency, Microservices, CI/CD

Education

B.Tech in Computer Science *2023 – 2027*
SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering, Shirpur (CGPA: 3.16 / 4.0)

Projects

Revealr – Adaptive Network Scanner (Go, Python) *2025 – Present*

- Built a hybrid Go-Python network scanner capable of scanning **65,535 ports per host** using concurrent worker-pool architecture for high-throughput host discovery and service fingerprinting.
- Engineered real-time SQLite persistence with historical baseline comparison, enabling scan resumption, stateful vulnerability tracking, and change detection across successive assessments.
- Designed a modular Python plugin framework integrated through lightweight IPC, enabling extensible vulnerability detection and protocol analysis.

OSA – Offline Security Auditor (Go) *2026 – Present*

- Developed an air-gapped security analytics platform processing logs from **5 heterogeneous sources** with **200 ms** analysis latency for real-time threat detection.
- Implemented Z-score and Markov Chain behavioural analytics, reducing false-positive alerts by approximately **38%** compared to static threshold rules.
- Built a **zero-dependency Go binary** with streaming log ingestion, enabling scalable forensic analysis across Linux, Windows, Docker, and Kubernetes environments.

DevContext.AI – AI Repository Intelligence Platform *2026 – Present*

- Architected an AI-powered platform using React, AWS Serverless, Amazon Bedrock, and Claude supporting **10+ concurrent repository analyses**.
- Designed a **3-stage** intelligence pipeline delivering initial repository insights within **30 seconds** and complete analysis for repositories up to **50 MB** within **90 seconds**.
- Implemented scalable serverless APIs with grounded AI validation, automated architecture reconstruction, and intelligent processing for repositories exceeding **50K tokens**.

Open Source

SPQR – PostgreSQL Distributed Sharding Router (Go) *2025*

- Contributed production-grade Go code by implementing native **Request Per Second (RPS)** tracking across the distributed PostgreSQL routing layer.
- Improved routing observability through performance instrumentation, enabling real-time throughput monitoring and faster diagnosis of routing bottlenecks.
- Collaborated with maintainers through GitHub pull requests, debugging, code reviews, and production-grade distributed systems development.

Experience & Achievements

- **Leadership:** Cybersecurity Lead, NMIMS Coding Club; managed 12 members, hosted 5+ CTF events, taught cloud & security to 100+ students.
- **Certification 1:** Introduction to Critical Infrastructure Protection (ICIP) – OPSWAT Academy
- **Certification 2:** Cloud Computing Fundamentals – IBM SkillsBuild
- **Hackathons & Competitions:** Built MetroMind backend for SIH 2025 (100% audit capture); 1st Place College CTF; AWS AI for Bharat Round 2 Qualifier; Google CTF; 8+ Hackathons.