

# Rounak Neema

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Security (Backend, Systems, DevSecOps) Software Engineer

## Summary

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Security-oriented software engineer well-versed in systems engineering, backend development, and applied cybersecurity. Built network scanners, offline security analytics engines, and containerized microservices systems using Go, Python, and Docker.

## Skills

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**Languages:** Go, Java, Python, Bash, SQL

**Systems:** Linux, TCP/IP, raw sockets, concurrency, filesystems, log processing

**Security:** Vulnerability testing, service testing, detection engineering, attack simulation, CTFs

**DevOps and Infrastructure:** Docker, Git, CI/CD, SQLite, PostgreSQL, microservices

## Education

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**B.Tech in Computer Science** 2023 to 2027  
SVKM's NMIMS Mukesh Patel School of Technology Management and Engineering, Shirpur

## Projects

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**Revealr - Adaptive Network Scanner (Go, Python)** 2025  
[Advance-Network-Scanner](#)

- Built a high-concurrency network scanner in Go achieving up to 50,000 ports per minute scan throughput on local networks.
- Designed and implemented a stateful scan engine using SQLite to resume scans and perform historical diffing.
- Implemented a Python plugin system with custom plugins for service fingerprinting and vulnerability checks.

**OSA - Offline Security Auditor (Go)** 2026 (*In Progress*)

- Building an air-gapped security analytics engine as a single Go binary with no runtime dependencies.
- Implemented statistical detection using Z-score analysis, probability matrices, and Markov chains.
- Developed a log ingestion pipeline supporting historical backfill and real-time monitoring.

**MetroMind - AI Document Intelligence Platform (Smart India Hackathon)** 2025  
[METRO\\_MIND](#)

- Built backend services for a microservices-based document intelligence system for Kochi Metro Rail.
- Developed and containerized 12+ services using Docker including API gateway, authentication, OCR, and vector search.
- Implemented RBAC and audit logging and enabled full stack deployment using Docker Compose.

## Experience

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**Cybersecurity Lead (Security Engineering Role), Coding Club** 2025 to 2026

- Led CTFs, workshops, and hands-on security labs for 100+ students.
- Designed challenges covering OSINT, web exploitation, cryptography, and network security.

## Achievements

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- 1st Place, College CTF Competition (Techfest)
- Participant, Google CTF
- Smart India Hackathon, Participant (2 times)