

Gianfranco Romani

Paterson, NJ 07502 • gianromani.gr@gmail.com • 862-235-3414

Education

New York University

Bachelors of Science, Computer Science. GPA 3.3

Awards: Dean's List 2023-2024

New York, NY

May 2024

Technical Skills & Projects

Programming: Python, TypeScript, Java, C++

Networking & Security Knowledge: Familiar with TCP/IP, DNS, HTTP/HTTPS, SSL/TLS, firewalls, encryption, OWASP vulnerabilities, secure coding practices, and basic network troubleshooting

Operating Systems Knowledge: Solid grasp of processes, threads, memory management, file systems, and multitasking; experienced in Linux and Windows development environments

Enterprise Network Simulation

- Configured a 6-LAN enterprise network with DHCP, VLANs, subnetting, and labeled routing in Packet Tracer.
- Implemented OSPF for internal dynamic routing and BGP across 4 Autonomous Systems to enable external web access
- Validated end-to-end connectivity; documented full device configs and protocol operations

Penetration Testing CS-GY 6573 Final Project

- Executed black-box pentest on multi-tier network to escalate privileges from external web server to internal root
- Applied vulnerability scanning, password cracking, Metasploit exploits, proxychains, and SSH tunneling for lateral movement
- Captured 8 critical flags and produced a detailed technical report with exploits and remediation steps.

Experience

Sub360

Software Engineer Intern

New York, NY

March 2024 – May 2025

- Built type-safe UI components (React, TypeScript) to support new CRM features, improving maintainability via modular design, pure components, and custom hooks.
- Designed Protobuf-based API interfaces and implemented gRPC services for automated contact merging, reducing redundant data and improving cloud memory efficiency and user data organization
- Collaborated with engineers to reproduce and maintain a Pub/Sub and queue pipeline, ensuring 99.9% reliable database updates and scalable API performance.

New York University Rory Meyers

System Administrator

New York, NY

March 2023 – September 2023

- Maintained and monitored the internal lecture capture server, ensuring uptime, storage integrity, and efficient resource usage for reliable access to recordings across departments
- Troubleshoot wired and wireless network connectivity, VPN access, and peripheral device issues, ensuring seamless access to academic and administrative systems across campus