

Nicolas Romero

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Profile

Highly motivated final-year Cyber Security and Digital Forensics student with a strong foundation in networking principles and protocols, Linux/Windows administration, ethical hacking and scripting. Passionate about developing and securing networks. Eager to start a career in cyber security and committed to continuous learning to adapt to new technologies. Proven problem-solver with a strong desire to participate in IT teams' success by contributing to the design, deployment and management of secure network solutions. Fluent in English and Spanish.

Technical Skills

- Operating Systems: Linux (Ubuntu, CentOS, Kali, strong CLI proficiency), Windows 9/10/11.
- Networking: TCP/IP, Subnetting, Routing, Packet Analysis (Wireshark), Network Architectures, DNS, HTTP/S.
- Scripting & Automation: Python, Javascript, Bash
- Virtualisation: VMware, VirtualBox
- Cloud Platforms: Microsoft Azure (Azure Data Fundamentals)
- Cyber Security Tools: Metasploit, FTK Imager, RegShot, PEiD, Immunity Debugger
- Concepts: Distributed systems and security, Security Management, Formal Verification, Model Checking, Vulnerability Discovery, Security Protocols. Digital Forensics

Education

University of Portsmouth — BSc (Hons) Cyber Security and Forensic Computing

Graduation: July 2025

Key Modules & Skills:

- Programming Languages: Python, JavaScript, HTML, CSS
- Virtualisation & Networking: VMware, VirtualBox, Linux/Windows environments, subnetting, routing
- Ethical Hacking: Reconnaissance, SQL injection, XSS, privilege escalation using tools like Metasploit
- Digital & Malware Forensics: FTK Imager, ProcMon, RegShot, PEiD, hex analysis, report writing
- Security Management & Cryptography: Vulnerability discovery, secure protocols, cloud computing

Final Year Project: Formal Verification of the Needham-Schroeder Public Key Protocol (NSPK)

- Developed an interactive visualization of the NSPK protocol using the B-Method and VisB

- Applied formal verification and model checking to verify security properties
- Combined the benefits of formal verification with the functionality of a visualisation in a security system, demonstrating abilities in system analysis, design and presenting complex technical information.
- Gained deep insight into formal methods and functionality

Waltham Forest College — Access to Higher Education: Computing

Key Modules & Skills:

- English GCSE
- Maths Level 1
- Business Level 1

Work Experience

Principle Cleaning Services

Cleaning Operative | April 2020 – Sept 2024

- Developed strong communication and problem-solving skills through professional customer interaction and complaint resolution.
- Collaborated effectively with team leads and management to ensure high standards of service and client satisfaction.
- Demonstrated responsibility and leadership by supervising teammates and reporting incidents, contributing to successful and efficient operations

Independent Learning

Practical Ethical Hacking – TCM Security:

- Set up and managed a personal virtual lab environment for vulnerability testing using VMware/VirtualBox, installing Kali Linux and Windows virtual machines to simulate real-world attack scenarios.
- Executed and analysed various attack vectors, including EternalBlue exploitation and privilege escalation techniques, demonstrating practical understanding of system vulnerabilities and network protocols.
- Gained practical experience in troubleshooting complex technical environments and analysing system behaviour under various conditions.

Scripting for security and automation (TCM Security - Python for Hacking):

- Developed custom Python scripts for security tools, including basic keylogger, SSH brute-force automation and hash crackers, learning the fundamentals of scripting for automation and data processing
- Applied problem-solving skills to translate security concepts into functional code

Continuous Learning & Industry Engagement:

- Eager to complete current certifications like EC-Council Ethical Hacking Essentials.

- Consistently follow industry news (The Hacker News, The Cyber Security Hub, etc) to stay updated on emerging threats, updates, tools and best practices in cyber security and technology
- Demonstrates a proactive approach to technical development and a passion for engineering solutions

Certifications

- Microsoft Certified: Azure Data Fundamentals (2024)
- Kreativstorm: Cyber Security Hands-on Training Program (2023)

Hobbies & Interests

- Salsa dancer at Portsmouth Salsa Society
- Boxing enthusiast at local Portsmouth school
- Tech enthusiast, always exploring new security topics and tools

Languages

- English (Fluent)
- Spanish (Fluent)s