Ryan Cranie

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Experience

ITNSA Squad Member   *United Kingdom*
WorldSkills UK   *Nov 2022 - Aug 2026*

- Top performant in nationwide technical IT competitions - selected from over 200 participants, securing a top-4 spot to enter WorldSkills UK's IT networking training program (competition ↗)
- Committed to a structured training regimen alongside academic studies, using Cisco CML, Microsoft Server, and Linux CLI, consistently achieving 95%+ accuracy in network technician simulations (article ↗)
- Awarded a WorldSkills UK *Certificate of Excellence* in national competition

Team UK IT-NSA Representative   *Abu Dhabi, UAE*
WorldSkills Asia 2023   *Nov 2023 - Dec 2023*

- Chosen individual to represent the UK in a prestigious 3-day troubleshooting competition out in Abu Dhabi, tasked with building and configuring complex networks under live audience pressure
- Resolved network configuration issues, configured and redistributed EIGRP and OSPF, implmemented successful Linux/Microsoft server configuration

Projects

Evaluating Lightweight Cryptography for Secure Firmware Updates in IoT   *Aug 2024 - May 2025*

- Undergraduate thesis exploring secure, efficient cryptographic protocols for secure firmware updates in resource-constrained smart home IoT devices
- Implemented symmetric protocols (e.g., AES-128) and asymmetric protocols (e.g., ECDSA, Ed25519) to determine their suitability in real world applications

Security Assessment of a Simulated Chemical Plant ICS   *Oct 2024 - Dec 2024*

- Conducted security assessment of an Industrial Control System, including vulnerability identification and exploitation (MITM, brute force) using tools like Nmap, Wireshark, and Ettercap
- Designed and a Python-based script to overwrite HMI controls, deployed an ettercap filter MITM attack to render the HMI useless.

Dijhitech Research Labs - Internal Penetration Test   *Jan 2024 - Apr 2024*

- Directed a 6-member team in a black-box penetration test, dedicating 50+ hours to uncover and document 9 critical vulnerabilities, enhancing security posture.
- Utilized kali tools including Nmap, SSLScan, DIRB, Netcat, and ltrace for comprehensive reconnaissance, vulnerability assessment, and exploitation.

Education

Glasgow Caledonian University   *Sep 2023 - May 2025*
BSc (Hons) in Cyber Security & Networks

- Expected Classification: 1st
- **Notable Modules:** Enterprise Networking, SOC Operations, Applied Penetration Testing

New College Lanarkshire   *Sep 2021 - May 2023*
HND in Cyber Security

- Graded Unit: A
- **Notable Modules:** Cisco Switching and Routing, Digital Forensics, Ethical Hacking

[REDACTED]   *Sep 2018 - Jun 2022*
Secondary Education

- **Scottish Highers:** ABBB inc. Computing (A), Maths (B)
- **10x GCSEs:** 8-5 inc. ICT (8), Maths (8)

Skills

Technical: Network Design/Implementation, Troubleshooting, Python, git, Linux, Powershell, Kali tools, Documentation

Achievements: University Class Rep, UKMT Maths Challenge Merit, eSports Success, WorldSkills Squad UK