

Ryan Cranie

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Experience

ITNSA Squad Member

WorldSkills UK

United Kingdom

Nov 2022 - Aug 2026

- Selected from over 200 participants nationwide, 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, mastering advanced troubleshooting and network configuration.
- Achieved a WorldSkills UK *Certificate of Excellence* in national competition
- Consistently achieved 95%+ accuracy in network setup simulations, preparing for participation in international competitions through 4 years of training until 2026 ([article](#) [🔗](#))

Team UK IT-NSA Representative

WorldSkills Asia 2023

Abu Dhabi, UAE

Nov 2023 - Dec 2023

- Chosen 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, implementing EIGRP, OSPF, and Linux/Microsoft server configurations.
- Successful communication between network nodes, commended for adaptability and technical precision.

Projects

Evaluation of Lightweight Cryptography in IoT Firmware Updates

Aug 2024 - May 2025

- Undergraduate Thesis exploring secure, efficient cryptographic protocols for Firmware Over-the-Air 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.

Dijhitech Research Labs - Internal Penetration Test

[Report of Findings](#) [🔗](#)

- Led a 6-member team in a black-box penetration test, conducting 50+ hours of analysis and documenting 9 critical vulnerabilities.
- Tools Used: Nmap, netcat, DIRB, Reverse Shell

Education

Glasgow Caledonian University

BSc (Hons) in Cyber Security & Networks ([course](#) [🔗](#))

Sep 2023 - May 2025

- Current Average: 75%
- Notable Modules:** Enterprise Networking, SOC Operations, Applied Penetration Testing

New College Lanarkshire

HND in Cyber Security

Sep 2021 - May 2023

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

Chryston High School & Hautlieu High School

Secondary Education

Sep 2018 - Jun 2022

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

Accomplishments

Technical: Python Scripting, Git, Cyber Statutory Laws, Powershell

Academic: University Class Representative, UKMT Maths Challenge Merit, ACE Practitioner Cyber Security Graduate

Personal: Game Development, eSports Professional, Website Development, Advanced Spreadsheets