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, 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 — *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
- Successful communication between network nodes, commended for adaptability and technical precision

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

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

- Led a 6-member team in a black-box penetration test, conducting 50+ hours of analysis and documenting 9 critical vulnerabilities (Report of Findings ↗)
- Tools Used: Nmap, SSLScan, DIRB, Netcat, ltrace

Education

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

- Current Average: 81%
- **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

Chryston High School & Hautlieu High School — *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: Python, git, Cyber Statutory Laws, Powershell

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

Personal: Game Development, eSports Success, Website Development, Rich Spreadsheeting