

# Richard Waters

## Contact Information

📍 Liverpool, UK  
✉ [richardwaters866@gmail.com](mailto:richardwaters866@gmail.com)  
🐙 [GitHub](#)

## 📄 Professional Summary

Experienced and highly skilled **Cyber Security Professional** with a **First-Class Honours degree** in Computer Science and over **10 years of coding experience**. Proficient in **penetration testing, ethical hacking, and network security**, with expertise in tools like **Burp Suite, Nmap, John the Ripper, and Metasploit**.

Extensive knowledge of **Windows, macOS, and Linux** environments, coupled with strong **programming and scripting** abilities. Adept at identifying vulnerabilities, securing systems, and implementing robust security measures to **protect organisations from cyber threats**. Passionate about staying ahead of emerging security risks and best practices.

## 🔧 Core Skills & Competencies

- 🔧 **Penetration Testing & Ethical Hacking** – Conducting vulnerability assessments and security audits.
- 🔧 **Security Tools** – Proficient in **Burp Suite, Nmap, Wireshark, Metasploit, John the Ripper, Nessus**.
- 🔧 **Operating Systems** – Expert in **Windows, macOS, Linux** environments.
- 🔧 **Network Security & Monitoring** – Securing and monitoring networks to prevent cyber threats.
- 🔧 **Programming & Scripting** – Python, Bash, Java, Go, JavaScript, C++, Rust for security automation.
- 🔧 **Cloud Security** – Experience with **AWS, Azure, Google Cloud** security practices.
- 🔧 **Incident Response & Digital Forensics** – Investigating cyber threats and security breaches.
- 🔧 **Regulatory Compliance** – Knowledge of **ISO 27001, GDPR**, and risk assessments.
- 🔧 **Version Control & DevOps** – Skilled in **Git, CI/CD, Docker, Kubernetes, Terraform**.
- 🔧 **Threat Intelligence & Cyber Risk Analysis** – Identifying and mitigating security threats.

## 🏢 Professional Experience

### 🔧 Penetration Tester

SecureTech Solutions, Liverpool | Jan 2021 – Dec 2023

- Conducted **penetration tests** on web applications, networks, and cloud environments.
- Analysed **network traffic** using Wireshark to detect anomalies and threats.
- Identified and exploited **security vulnerabilities** using tools like **Burp Suite, Nmap, Metasploit**.
- Simulated **real-world cyber attacks** to strengthen security postures.
- Ensured compliance with **ISO 27001, GDPR, and industry security standards**.

### 🔧 Senior Software Engineer (Security Focus)

Club L London, Manchester | Jan 2023 – Present

- Developed **secure backend systems** using **Node.js and MongoDB**.
- Implemented **security best practices** to protect against **XSS, SQL injection, and other threats**.
- Conducted **threat modelling and security risk assessments**.
- Built **custom API security layers** to prevent unauthorised access.
- Integrated **real-time performance monitoring** for detecting security anomalies.

### 🔧 Cyber Security & AI Consultant

Freelancer.com, Liverpool | Jan 2020 – Present

- Developed an **AI-driven security system** to block malicious web traffic.
- Conducted **digital forensics investigations** using Python and machine learning.
- Created **automated security scripts** to scan and monitor logs for intrusions.
- Advised clients on **cybersecurity strategies and risk mitigation**.

### 🔧 Software Engineer & Network Security Specialist

Tornado, Liverpool | Jan 2019 – Dec 2021

- Designed **custom CRM systems** with **secure authentication & data encryption**.
- Monitored **network traffic** to identify potential security breaches.
- Developed **firewalls and intrusion detection systems**.
- Implemented **CI/CD security measures** to protect code integrity.

# 📄 Education & Certifications

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## 🎓 Bachelor of Science (BSc) in Computer Science

Liverpool Hope University | 2018 – 2021

📄 First-Class Honours | Specialised in **Cyber Security, Networking, Ethical Hacking**

📄 Dissertation: *“Beyond the Fingerprint: Merging Humans with Machines”*

## 📄 Certifications

- **CompTIA Security+ (In Progress)**
- **Certified Ethical Hacker (CEH) (In Progress)**
- **Offensive Security Certified Professional (OSCP) (Planned)**
- **AWS Certified Security – Specialty (Planned)**

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# 📄 Technical Skills

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- **Programming:** Python, Bash, Java, JavaScript, Go, Rust, C++, C#, Ruby, Swift, PHP, Kotlin
- **Security Tools:** Burp Suite, Nmap, Metasploit, John the Ripper, Wireshark, Nessus
- **Operating Systems:** Windows, macOS, Linux
- **Networking:** TCP/IP, VPN, Firewalls, DNS, Network Penetration Testing
- **Cloud Security:** AWS, Azure, Google Cloud
- **DevOps & CI/CD:** Docker, Kubernetes, GitLab CI/CD, Ansible, Terraform
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, Firebase, PostgreSQL, PHPMyAdmin, SQLite
- **Version Control:** Git, GitHub, GitLab, Bitbucket
- **Threat Intelligence:** Threat Modeling, Cyber Risk Analysis, Vulnerability Assessment
- **Incident Response:** Digital Forensics, Threat Hunting, Incident Response Planning
- **Regulatory Compliance:** ISO 27001, GDPR, PCI DSS, HIPAA, NIST Cybersecurity Framework
- **Soft Skills:** Communication, Problem Solving, Teamwork, Adaptability, Time Management

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# 📄 Projects & Additional Experience

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- 📄 **Developed a penetration testing report** outlining vulnerabilities and mitigation strategies: [GitHub Repo](#)
- 📄 **Created automated network monitoring scripts** to detect real-time threats.
- 📄 **Active in Capture the Flag (CTF) competitions**, refining penetration testing skills.
- 📄 **Conducted security awareness training** for software developers on secure coding practices.

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# 📄 References

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Available upon request.

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