Arsh Imtiaz Jamadar
Cyber Security Engineer
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Profile Summary

Cybersecurity Engineer with hands-on experience in penetration testing, vulnerability assessment, threat modelling, and securing distributed systems. Skilled in analysing complex platforms, identifying weaknesses, and supporting secure-by-design engineering. I've worked across embedded systems, network protocols, cloud environments, and Linux-based platforms, with experience in both offensive and defensive security practices.

My work spans penetration testing, risk analysis, secure development support, and compliance activities aligned with global cybersecurity standards. I'm now looking to broaden into wider cybersecurity roles, including product security, cloud security, penetration testing, and cyber engineering.

Core Skills

- Penetration Testing
- Vulnerability Assessment
- Threat Modelling (TARA, STRIDE principles)
- Linux Security (Arch/Ubuntu)
- Network Security & Protocol Analysis
- Python & Bash Scripting
- Cloud Security (AWS/Azure)
- Embedded Software Security (NXP, ARM)
- Secure Development Support
- Packet Analysis (Wireshark)
- Virtualisation & Lab Building
- Documentation & Reporting

Professional Experience

Penetration Tester
McLaren Automotive Ltd (Contract via Tata Technologies)
Woking, UK | Aug 2025 – Present

- Led cybersecurity verification activities for regulatory audit readiness, including reviewing requirements, validating evidence, and confirming coverage against approved cybersecurity work products.
- Produced structured verification reports and audit-ready documentation for submission to the Vehicle Certification Agency (VCA), ensuring alignment with regulatory expectations and internal quality standards.
- Collaborated with feature owners, architects, and technical teams to close gaps, improve documentation quality, and streamline verification workflows ahead of external assessment.
- Reviewed test results, analysed supporting security evidence, and confirmed the completeness and traceability of cybersecurity requirements across multiple components.
- Additionally supported penetration testing activities, including protocol-level testing, service enumeration, traffic manipulation, and vulnerability identification.
- Provided remediation guidance through technical reports and proof-of-concept demonstrations, contributing to platform security hardening.

Cyber Security Engineer
Tata Technologies Ltd
Warwick, UK | July 2025 – Present

- Support secure-by-design reviews, threat modelling, and risk analysis activities.
- Validate security requirements and analyse system designs for weaknesses.
- Contribute to governance processes and cross-team security alignment.

Client Assignment
Aston Martin Lagonda (via Tata Technologies)
Gaydon, UK | August 2024 – September 2024

- Completed a one-month on-site assignment at Aston Martin supporting their infotainment engineering team.
- Developed an automated Diagnostic Trouble Code (DTC) parser to accelerate debugging and log analysis workflows.
- Created a Python-based debugging tool for AMP audio issues, which helped diagnose and reproduce a random pop sound occurring during system runtime.
- Collaborated with infotainment and software engineers to analyse logs, isolate triggers, and improve troubleshooting efficiency.

Cybersecurity Engineer (Early Career)
Tata Technologies Ltd
Warwick, UK | July 2023 – October 2024

- Learnt about engineering flows in ER&D and ESS departments.
- Wrote attack scripts in Bash and Python for pen testing software.
- Created documentation, test plans, and risk assessments.

Education

BSc (Hons) Ethical Hacking and Cyber Security – First Class Honours
Coventry University | 2021 – 2025

Projects

- Built and currently maintaining a portfolio and cybersecurity blog website.
- Built a personal cybersecurity lab using Linux, VMs, and network tooling for testing advanced threat scenarios.
- Designed a secure distributed communication prototype using decentralised principles, with a blockchain background.
- Developed threat simulation scenarios and PoCs for testing authentication and messaging weaknesses.

References

Available upon request.