

# Rishabh Arora

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Eligible to work in the UK (Graduate Visa)

## PERSONAL STATEMENT

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Enthusiastic and adaptable Cyber Security graduate with proven experience supporting projects that strengthen my penetration testing skills. Skilled in spotting vulnerabilities and monitoring activity. I have worked on projects that involved securing cloud environments, building intrusion detection systems, and raising awareness of best practices, while also collaborating closely with technical teams and non-technical stakeholders. I bring strong problem-solving skills, clear communication, and a proactive mindset.

## EDUCATION

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**University of Southampton, UK** 2021–25

**MEng Computer Science with Cyber Security**

- Graduated with 2:1 (Upper Second-Class Honours)
- Key Modules: Software Security, Digital Forensics, Cryptography, Web Security, Advanced Networking

**Bhatnagar International School, Delhi, India** 2008–2021

**Central Board of Secondary Education (CBSE)**

- Final Year Percentage: 86% (2020–2021)
- Pre-Final Year Percentage: 88% (2018–2019)

## TECHNICAL SKILLS

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- **Programming:** Python, Java, C++, SQL, Haskell, Bash
- **Cloud and Infrastructure:** AWS EC2, Linux, Virtual Machines, Docker, cPanel
- **Vulnerability Identification:** Burp Suite, Wireshark, Metasploit
- **Networking:** Netcat, Nmap
- **Security & Compliance:** ISO 27001, GDPR, Risk Assessments

## PROJECTS

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**Jackal APT Sample**

**Malware and Memory forensics**

June 2025

- Investigated malware and memory dump with Volatility, uncovering persistence via registry and mutexes.
- Decoded 25+ C2 servers and linked network activity to backdoor/lateral movement.
- Reported key IOCs and provided SOC/IDS detection recommendations.

**Operation Spoiler**

May 2025

**Digital Forensics Case Simulation**

- Executed a full digital forensics investigation, ensuring chain of custody and reproducibility.
- Analysed digital evidence with tools (HxD, Ghidra) and maintained detailed contemporaneous notes.
- Produced an expert witness statement for non-technical stakeholders, applying DFIR and legal standards

### Secure CCTV System for Treaty Verification Group Design Project

Jan–Mar 2025

- Built a secure CCTV system with encrypted data transmission and tamper detection.
- Performed threat analysis and strengthened hardware/software against attacks.
- Ensured compliance (GDPR, risk assessments) and explained solutions to non-technical stakeholders.

### Exploring the Trade-off Between Model Complexity and Accuracy in MANET Security Using SVM

Oct 2023–Apr 2024

- Developed an intrusion detection system (IDS) using SVM to detect MANET attacks.
- Simulated real-world threats (Gray Hole, AODV modifications) and improved detection accuracy.
- Applied machine learning techniques (feature engineering, dataset training) to boost performance.

### Runway Re-declaration Tool Group Project

Feb–May 2023

- Applied Agile/Scrum practices (stand-ups, sprint planning, reviews) to manage the project.
- Coordinated work using team collaboration tools (Discord, Notion, Teams).
- Gained technical proficiency in Java, JavaFX, JUnit, and development tools (IntelliJ, Git, Figma).

## EXPERIENCE

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### Webmaster, Southampton University Cyber Security Society (SUCSS)

2023–2024

- Redesigned and maintained the SUCSS website, improving site engagement by 30%.
- Managed server administration and backups, ensuring 100% uptime of VMs.
- Promoted cybersecurity awareness by delivering workshops, events, and online campaigns.

Aug–Sep 2023

### Project Assistant at “iSolutions”

- Upgraded office communication by replacing desk phones with Microsoft Teams.
- Maintained a project database, ensuring seamless data tracking and organisation.
- Collaborated with a cross-functional team, meeting tight deadlines efficiently.

Apr–Jun 2023

### Intern at “ActivPoints”

- Developed and deployed web applications using React, AWS EC2, and JavaScript.
- Optimised server performance, managing backend infrastructure on AWS and cPanel.
- Enhanced security and authentication, implementing secure login mechanisms.

## SOFT SKILLS

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- **Public Speaking:** Delivered cybersecurity workshops as SUCSS Webmaster, engaging 100+ students.
- **Event Management:** Coordinated society activities and technical events with high participation.
- **Time Management:** Balanced academics, projects, and part-time work while meeting all deadlines.

## LANGUAGES

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- English (Fluent)
- Hindi (Fluent)
- German (Basic proficiency)