

Rishabh Arora

✉ 0.rishabh.arora.0@gmail.com | 📞 +44 7831284705 | 🌐 github.com/Rishabh-Arora
🌐 [linkedin.com/in/Rishabh-Arora](https://www.linkedin.com/in/Rishabh-Arora)

INTRODUCTION

Cybersecurity Graduate specialising in cloud security, incident detection, and compliance (ISO 27001, NIST). Experienced in monitoring, threat analysis, and implementing secure cloud environments (AWS, Linux, SIEM). Hands-on experience collaborating with SOC teams, conducting vulnerability assessments, and delivering security awareness initiatives. Ranked in the Top 9% on TryHackMe with 150+ completed labs

EDUCATION

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

- **Programming:** Python, Java, JavaScript, SQL, Haskell, Bash
- **Cloud and Infrastructure:** AWS EC2, Linux, Virtual Machines, Docker, cPanel
- **Vulnerability Identification:** Burp Suite, Wireshark, Metasploit
- **Networking:** Netcat, Nmap

PROJECTS

Secure CCTV System for Treaty Verification Group Design Project Jan - March 2025

- Developed a tamper-resistant CCTV system ensuring secure data transmission.
- Conducted threat analysis, identifying DoS, side-channel, and key compromise risks.
- Implemented RSA encryption, TLS, and secure key storage for data protection.
- Developed a 3D-printed enclosure with tamper detection and security modules.
- Upgraded hardware (Raspberry Pi 3/4) for better security and system resilience.
- Managed documentation, risk assessments, and GDPR compliance.

MANET IDS October 2023 - April 2024

- Designed an IDS using SVM to detect MANET network attacks.
- Simulated grayhole attacks in NS3 for network security analysis.
- Optimised feature selection to improve intrusion detection accuracy.
- Modified AODV routing protocol to simulate real-world threats.
- Trained SVM models on UNSW-NB15 dataset for anomaly detection.
- Implemented data preprocessing and feature engineering for ML models.
- Analysed model performance to balance complexity and accuracy.

Runway Re-declaration Tool Group Project

Feb - May 2023

- Practised Scrum and Agile methodologies, enhancing project management skills.
- Conducted daily stand-up meetings, sprint planning, and sprint reviews to drive project success.
- Adopted agile methodologies and software tools for project management.
- Efficiently utilized communication and task management tools (e.g., Discord, Notion, Microsoft Teams).
- Acquired technical proficiency in Java, JavaFX, JUnit, and various development tools (e.g., IntelliJ IDEA, Git, Figma).

TETRECS

Feb – March 2022

- Gained hands-on experience with JavaFX and CSS.
- Developed the ability to code consistently and acquired the skill of critical thinking.
- Implemented knowledge practically in building challenging applications.
- Gained understanding of graphics and event listeners in JavaFX during this project.

EXPERIENCE

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.

Project Assistant, iSolutions

August - September 2023

- Upgraded office communication systems, replacing legacy desk phones with modern Microsoft 1Teams Phones.
- Maintained a project database, ensuring seamless data tracking and organisation.
- Collaborated with a cross-functional team, meeting tight deadlines efficiently.

Intern, ActivPoints

April - June 2023

- 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

- **Leadership and Public Speaking:** Organised and delivered cybersecurity workshops as Webmaster of the Southampton Cyber Security Society, engaging 100+ students.
- **Event Management:** Coordinated society activities and technical events, ensuring smooth execution and high participation.
- **Time Management:** Successfully balanced academic learning, group projects, and a part-time role, consistently meeting deadlines and maintaining strong performance.

LANGUAGES

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