Zeeshan Ajmal

Cybersecurity & AI Engineer | Machine Learning

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🪪 PROFILE

Cybersecurity and AI Researcher with practical experience in adversarial machine learning, data analysis, and threat detection. Currently working at the University of Oulu, focusing on AI applications in cybersecurity. Skilled in security engineering, data science tools, and penetration testing. Strong background in applying technical solutions to improve system security and reliability.

🧠 SKILLS

Technical Skills

- **AI & Machine Learning:** PyTorch, TensorFlow, GenAI application development, Adversarial Machine Learning
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes
- **Programming & Scripting:** Python, C++, Shell Scripting
- **Cybersecurity Tools**: Wireshark, Nmap, Metasploit, Burp Suite, Nessus, SIEM (Wazuh).
- **Penetration Testing**: Vulnerability scanning, exploitation, and web application testing.
- **Database Management:** MySQL
- **Data Visualization & Analysis:** Power BI, Tableau
- **Threat Modeling & Risk Analysis:** FMEA, Root Cause Analysis

Soft Skills

- **Communication:** Excellent verbal and written communication skills in English, adept at explaining complex technical concepts to diverse audiences.
- **Problem-Solving:** Strong analytical and problem-solving skills, with a focus on identifying innovative solutions to complex security challenges.
- **Collaboration:** Proven ability to work effectively in international and multidisciplinary teams, fostering a culture of open communication and mutual support.
- **Adaptability:** Flexible and quick to adapt to new technologies and challenges, thriving in dynamic environments.

🎓 EDUCATION

09/2023 – 06/2025 Oulu, Finland	**MS Computer Science and Engineering,** Univeristy of Oulu Focus: Security Engineering, Information Security, Ethical Hacking, Cryptographic Systems, Cloud & Network Security, Distributed Systems Security, Project Management.
2007 – 2011 Islamabad, Pakistan	**BS Telecommunication Engineering,** COMSATS University Focus: Data Communication & Networks, Wireless Communication, Network Programming, Object Oriented Programming

💼 PROFESSIONAL EXPERIENCE

11/2024 – present Oulu, Finland	**Research Assistant,** University of Oulu Currently working as a Research Assistant focusing on developing advanced Quantum Cybersecurity frameworks. I am focusing on AI/ML models for proactive detection and mitigation of quantum-era malware threats. My work integrates deep machine learning algorithms to analyze quantum computing threats and propose resilient cybersecurity protocols.

05/2024 – 08/2024 Oulu, Finland	**Research Intern,** University of Oulu

- Conducted research on the integration of AI/ML techniques in cybersecurity, with a focus on adversarial machine learning and its application in detecting and mitigating cyber threats.
- Collaborated with experts in quantum computing to explore the intersection of AI/ML and quantum technologies in enhancing cybersecurity.
- Analyzed large datasets to identify patterns and develop AI-driven models for threat detection and prevention.

05/2023 – 08/2023
Jeddah, Saudi Arabia

Data Center Security Engineer, Engie Solutions
- Implemented safety and security standards for KACE & KAUST Data Center, ensuring compliance with NIST, EMEA, and local regulations.
- Conducted risk assessments and regular security audits to identify and mitigate potential threats, enhancing overall data center security.
- Trained staff on security protocols and collaborated with cross-functional teams to address security concerns and implement corrective actions.

12/2015 – 05/2023
Jubail, Saudi Arabia

Risk Analysis Engineer, Royal Commission / SRACO
- Conducted comprehensive risk assessments and data analysis using Power BI.
- Implemented and enforced safety management systems, trained staff on compliance and global safety programs.
- Led security and risk management initiatives, ensuring adherence to local regulatory legislation.
- Performed FMEA and Root Cause Analysis to enhance system reliability and
- security

04/2014 – 04/2015
Islamabad, Pakistan

Cyber Security & HSE Engineer, Tier4 Pvt. Ltd
- Implemented QHSE standards for microwave link installations and improved cybersecurity programs for subcontractors.
- Developed HSE policies and ensured compliance with safety and health regulations.
- Managed security operations, including media expansion projects and network security enhancements.

🖥 FREELANCE WORK

2023 – present

Ethical Hacker, HackerOne
- I perform in-depth penetration tests on client applications, reporting critical vulnerabilities and recommending security enhancements.
- I am applying Secure Software Development Life Cycle (SSDLC) principles to aid in the development of secure applications.

🔖 CERTIFICATES AND COURSES

Cyber Security
- (ISC)² Systems Security Certified Practitioner
- CompTIA a+ Cyber.
- CompTIA Security+.
- Jr. Penetration Tester.
- CISSP Training

Data Analysis
- Google Data Analytics Professional Certificate
- Data Driven Decisions with Power BI
- SQL and Python for Data Science