MUHAMMAD TERMIDZI BIN AZMI

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PROFESSIONAL SUMMARY

After touring four roles over 15 years in the Singapore Prison Service, I became interested in pivoting my career into cybersecurity and seeking to be hired for this role. Cybersecurity marries the three things I love and wish to apply in my career – technology, security and psychology.

My motivation to understand human behavior while in service led me to pursue a degree in Psychology. My job as a Prison Officer and Counsellor allowed me to further hone my skills beyond the classroom, such as reading people and being empathetic—soft skills that I believe are crucial for understanding the human factors in cybersecurity, from collaboration to social engineering.

My diploma in Microelectronics provided the relevant technical background to update my skills through the Software Engineering (SE) and Cybersecurity (CS) Bootcamps. Through the two courses, I have gained hands-on experience in building real-world apps end-to-end in SE and how to secure them from the internal and external environments they are in, using CS.

Lastly, being trained as a SPEAR Force operator (Singapore Prison Emergency Action Response – Special Forces) has equipped me with the skills to handle crisis, manage risks and make the right decisions under pressure. I believe my holistic experiences, soft skills and technical acumen would be beneficial to your organization and allow me my first chance to be an effective cybersecurity professional.

KEY SKILLS

- **Network Security**: I have hands-on experience with tools like Wireshark and CISCO Packet Tracer. My skills in network security enable me to protect computer networks from intruders and malware by designing, implementing, and monitoring security measures to ensure data integrity, confidentiality, and availability.
- **Technical Execution with Systems Thinking:** My capstone projects (github.com/MidziRibery) showcase a systematic approach to solving technical issues. For example, I developed an automated system using Bash to collect data for cyber investigations, reducing latency and human error. This system integrates tools like NMAP, WHOIS, SSHPASS, and NIPE. Future plans include using LLMs to interpret outputs for faster response times.
- **Incident Response and Risk Assessment:** Drawing from my crisis management experience in the special forces, I excel in incident response and risk assessment, applicable to cybersecurity. This involves swiftly identifying and mitigating security incidents while assessing risks and making informed decisions under pressure.
- **Interpersonal and Collaboration:** With a Psychology degree and experience as a Prison Counsellor, I specialize in social perception, interpreting body language, and fostering empathy. These soft skills are crucial for understanding the human factors in cybersecurity. I would utilize these abilities to collaborate with cross-functional teams, communicate effectively with stakeholders, and cultivate a security-conscious culture within the organization.

PROJECTS

NETWORK REMOTE CONTROL:
- Automated remote data collection processes, significantly reducing data collection time and handling installation and coding failures by developing Bash scripts to automate script execution and application installation on remote servers, thereby enhancing efficiency and reliability in data gathering processes.
- Ensured anonymity (NIPE) by checking and running appropriate programs to mask IP addresses and countries. Conducted network scans for open ports and connected to remote servers to perform network scans (NMAP & WHOIS) and download data.
- Collected and logged downloaded data onto local machines, auditing the data collection process for accuracy and completeness.

OPERATION LOG RECON:
- Developed a Python tool for analyzing "auth.log", enabling extraction, examination, and interpretation of log data to identify system operations, security threats, and anomalies.
- Automated the logging of command usage details, user authentication changes, password changes, and su and sudo command usage, issuing alerts for failed sudo attempts.
- Transformed raw log data into actionable intelligence, effectively communicating insights to stakeholders through comprehensive reports, and facilitating proactive risk identification and mitigation.

NET CRAFTS:
- Mapped the entire home network and devices, including VMware OS, by identifying devices' IP and MAC addresses, the router's internal and external IP addresses, DNS and DHCP IP addresses, and connections via ethernet or WiFi.
- Utilized tools such as Shodan, WHOIS, and Wireshark for comprehensive network intelligence gathering, providing a detailed overview of the network's structure and potential vulnerabilities.

CAREER HIGHLIGHTS

- **Automated Case Allocation System Project**: Accomplished streamlined case allocation process, measured by saving approximately 60 man-hours per month, by collaborating with IBM vendors and Prison's technology branch to design and implement automated solutions, enhancing efficiency and workflow optimization. This project demonstrated proficiency in collaborating with technology partners, enhancing workflow optimization, and implementing secure and efficient automated solutions.
- **Procurement of Innovative Tactical Vest:** Achieved enhanced officer safety and protection, measured by reducing injury risks (especially for the spine) during the standard obstacle course training, by conducting meticulous research, risk assessment, and successful acquisition efforts, demonstrating proficiency in implementing advanced protective measures.
- **Graduation from SPEAR Tactical Course:** Demonstrated mastery and adherence to strict protocols, measured by successful completion among a competitive cohort (7 out of 35), through dedication to technical proficiency and adaptability in high-stress environments. This achievement showcases capabilities crucial for cybersecurity roles, emphasizing skills in adherence to strict protocols, adaptability to evolving challenges, mastery of technical tasks, and effective performance under pressure.
- Awarded Ministry of Home Affairs Study Award
- Awarded Singapore Prison Service Commissioner Award – Team (Case Allocation Project)
- Awarded Best Tactical – Basic Prison Officer Training
- Awarded The Singapore Police Long Service and Good Conduct Medal
- Awarded Long Service Award (15 Years)
- Represent SPEAR and Singapore for the Mock Prisons Riot 2011 Tactical Competition (Top 10) – Held at West Virginia Penitentiary

PROFESSIONAL EXPERIENCE

ASSISTANT EXECUTIVE (WELL-BEING) | SINGAPORE PRISON SERVICE | 2021 – 2023

CORRECTIONAL REHABILITATION SPECIALIST | SINGAPORE PRISON SERVICE | 2017 – 2020
- Faced with the challenge of addressing diverse rehabilitation needs of ex-inmates, including substance abuse and mental health issues. Encountered a highly resistant and defiant multi-time incarcerated ex-inmate towards rehabilitation efforts.
- Developed and implemented personalized intervention plans with counselling, education, employment programs, and substance abuse treatment. Utilized community resources, built partnerships, and employed effective communication and negotiation skills to gain trust and compliance, overcoming initial resistance. I successfully tailored intervention plans to meet specific needs.
- Achieved improved rehabilitation outcomes and lower recidivism rates. Four years later, the ex-inmate successfully transformed his life, achieving milestones such as marriage, homeownership, car ownership, and self-employment.

S.P.E.A.R. FORCE TACTICAL OPERATOR | SINGAPORE PRISON SERVICE | 2009 – 2017
- Experienced in crisis management, responding swiftly to emergencies such as riots, disturbances, and hostage situations. Applied risk assessment methodologies and decision-making under pressure to ensure swift and effective responses, akin to incident response in cybersecurity.
- Proficient in assessing risks and potential hazards in diverse situations, utilizing intelligence gathering and analysis to make informed decisions and develop strategic plans before taking action. This includes evaluating threats, identifying vulnerabilities, and formulating proactive responses, skills essential for cybersecurity professionals to anticipate and mitigate security risks effective

EDUCATION

CYBERSECURITY VOCATIONAL PROGRAMME | CENTRE FOR CYBERSECURITY INSTITUTE | 2024
- Foundational CS Knowledge, Linux Proficiency, Python Programming & Scripting, Network & System Configurations
- On going boot camp till September 2024.

SOFTWARE ENGINEERING IMMERSIVE | GENERAL ASSEMBLY | 2023
- Developed a front-end project using HTML, CSS, and JavaScript.
- Developed 2 MERN individual and team projects, gaining experience with APIs and full-stack development.

BACHELOR'S DEGREE | PSYCHOLOGY | MURDOCH UNIVERSITY, SINGAPORE CAMPUS | 2017
- Major in Psychology. Minor in Organizational Psychology.

DIPLOMA | MICROELECTRONICS | TEMASEK POLYTECHNIC, SINGAPORE | 2006
- Developed and designed an automated plant watering system that takes in soil data, calculates, and distributes the right amount of water for the plant.

CERTIFICATIONS

- Certification of Completion – Foundations of Cybersecurity, Google Cybersecurity Certificate
- Certification of Completion – Learn JavaScript Course by Codecademy