Elvis Tang

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SUMMARY

Cybersecurity Specialist with a B.S. in Computer Engineering from Cal Poly Pomona. Experienced in security operations, threat detection, and vulnerability assessment. Proficient in SIEM tools like Splunk and Security Onion, as well as vulnerability scanners like Nessus. Knowledgeable in network security, risk management, and incident response. Skilled in Python, C/C++, and Agile workflows, with a strong ability to analyze threats and implement security solutions that align with business objectives.

EXPERIENCE

Instructor   November 2023 – Present
Coding Minds Academy   *Irvine, CA*
- Taught Python, JavaScript, and game development to students aged 6–18, emphasizing problem-solving and coding practices.
- Designed curricula introducing version control (Git), software tools (Visual Studio Code), and secure coding fundamentals.
- Fostered technical skills by aligning projects with real-world software development and cybersecurity principles.

Embedded Systems Engineer Intern   August 2022 – May 2023
Lockheed Martin   *Los Angeles, CA*
- Developed and debugged embedded software in C/C++ for unmanned ground vehicles, focusing on reliable hardware-software integration.
- Implemented communication protocols (UART, SPI, I2C) to enable secure and efficient hardware interfacing.
- Documented system designs and test procedures, collaborating with cross-functional teams to meet security and project requirements.

PROJECTS

Logging Hacker Information | Azure Sentinel
- Implemented Azure Sentinel SIEM solution to proactively detect and respond to cyber threats in real-time.
- Integrated honeypot with Azure Sentinel MAP to gather attack data and visualize cyber threats, enhancing response.
- Utilized real-time global attack visualization and Microsoft Threat Intelligence to strengthen security measures.

Sensor Fusion Algorithms and Tracking for Autonomous Systems | Lockheed Martin
- Designed algorithms to integrate LiDAR, camera, and IMU data for enhanced awareness in unmanned ground vehicles.
- Validated real-time sensor fusion systems for accuracy and reliability in dynamic environments.
- Collaborated with Lockheed Martin to optimize performance and ensure industry-standard compliance.

Authenticated Encryption / Hash | Romulus
- Developed Romulus AE and hashing algorithms using the Skinny-128-384+ tweakable block cipher for strong security.
- Implemented Romulus-N, Romulus-M, and Romulus-T for efficient, nonce-resilient cryptographic processing.
- Integrated Romulus-H hash function to ensure collision resistance and provable security in cryptographic applications.

Data Visualization | Identification of Statistically Significant Factors Contributing to Severity of Car Accidents
- Analyzed Highway Safety data using machine learning and regression to identify crash severity factors.
- Applied multinomial and binary logit regression to identify key contributors like light conditions in crash severity.
- Concluded that accident severity, light conditions, and intersection population impact the likelihood of hit-and-run incidents.

EDUCATION

Security+ SY0-701 | CompTIA
Google Cybersecurity Professional Certificate | Coursera
Bachelor's Degree in Computer Engineering | California State Polytechnic University, Pomona
Associate's Degree in Science Transfer (Mathematics) | Cypress College
Associate's Degree in Arts (Math and Science) | Cypress College

TECHNICAL SKILLS

Cybersecurity: Azure Sentinel, SIEM Solutions, Threat Detection, Incident Response, Network Security, Penetration Testing, Vulnerability Management, Firewalls, IDS/IPS, Cloud Security, Honeypots, DDoS Protection, Risk Assessment
Cryptography: Romulus AE, Romulus-H, Skinny-128-384+ Block Cipher, Encryption/Hash Algorithms
Programming & Scripting: Python, JavaScript, R, MATLAB, C, C++, Lua, Scratch, Shell, PowerShell
Development Tools: Azure, AWS, Docker, Postman, Jira, Agile, Git, GitHub, MongoDB