VO TRONG DUC

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EDUCATION

FPT UNIVERSITY
Major: Information Assurance   **2021 - 2025**
GPA: 3.2/4

PROFESSIONAL EXPERIENCE

VIETTEL IDC   **HCM City**
SECURITY ENGINEER INTERN   **July 2025 – October 2025**
- Setup customer website to **Cloudrity** then **fine-tuning** rule to match with requirements.
- Deployed and configured **CWAF (Radware)** to defend against attacks including **DDOS, SQL Injection, Brute Force**, and more based on **OWASP Top 10.**
- Built and optimized **security rules**, including **Signature-based protection, Custom Signatures, Rate Limiting,** and **API Protection**.
- Conducted vulnerability testing using **Burp Suite, ZAP, Kali Linux**; analyzed logs to assess threat mitigation effectiveness.
- Implemented **Data Loss Prevention (Fortra)**, created data classification rules, and enforced policies to block copying, printing, uploading, or emailing sensitive content.

HPT VIETNAM CORPORATION   **HCM City**
SECURITY ENGINEER INTERN | ON JOB TRAINING SEMESTER | Grade: 9.2/10   **December 2023 – April 2024**
- Performed in-depth analysis of **MITRE ATT&CK credential access techniques**, including **network sniffing, unsecured credentials,** and **input capture.**
- Applied AI/ML models to improve detection accuracy and refine alert tuning for these threats.
- Developed a proof-of-concept **keylogger** and **data stealer,** cleverly embedded in a Snake game, to simulate **real-world cyber threats** and demonstrate effective **defense strategies.**

PROSPIRE GROUP (TECHNOLOGICAL START-UP)   **HCM City**
CO-FOUNDER | FOUNDING ENGINEER   **May 2023 - Now**
- Developed and implemented a PROSPIRE Finance Bot for real-time financial statement delivery of over 1600 Vietnamese companies.
- Engineered tools for efficiently scraping and analyzing Vietnamese stock data.
- Developed and implemented a PROSPIRE Algorithm Trading AI Tracking V1 which is automated cryptocurrency trading with a proprietary strategy, achieving $100k volume within a week.
- Developed an automation tool to update crypto price to google sheets for tracking performance.

BLOCKSOLFI - FULL-STACK MARKETING & CONSULTING AGENCY FOR CRYPTO COMPANIES   **HCM City**
RESEARCH AND DEVELOPMENT TECHNICIAN   **March 2022 - December 2022**
- Uploaded and managed around 20 news/daily and updates on multiple social media platforms, including Facebook, Telegram, and Twitter, providing timely and relevant information to the group members by using bot.
- Managed a Facebook group with 16k members, Telegram group and channel with 5k members, Twitter account with 4k followers ensuring active engagement and growth of the community, regularly posting updates and engaging with followers.
- Conducted research on industry trends, providing insights and recommendations to inform marketing strategy.
- Monitored and analyzed metrics to measure the effectiveness of marketing campaigns and social media engagement to provided regular reports to the team.
- Developed automation tools to enhance and support the marketing process, including tools for auto-forwarding Telegram messages, posting tweets through MaxTwitterTool, increasing social media engagement, and boosting Facebook video views by own program.

PROJECTS

RESEARCH AND IMPLEMENTATION OF NETWORK INTRUSION DETECTION SYSTEM   **January 2025 – May 2025**
BASED ON ELK STACK | CAPSTONE PROJECT | Grade: 8.5/10 | Github

- Developed a **hybrid Network Intrusion Detection System (NIDS)** by using **machine learning**-based anomaly detection (via Python) with **Suricata** for signature-based threat detection.
- Trained ML models (Random Forest, Decision Tree, XGBoost) on the CICIDS2017 dataset to identify unknown or suspicious behaviors.
- Parsed logs from Suricata, extracted features, and implemented **real-time alerting** via Telegram API.
- Applied concepts in cybersecurity, networking, programming, and AI/ML to design and validate a complete NIDS pipeline.

PROSPIRE ALGORITHM TRADING AI TRACKING V1   **March 2024 – June 2024**
- Created an algorithm-driven trading bot for automated cryptocurrency trading, dynamically tracking market data and executing trades based on preset strategies.
- The bot enhances trading efficiency, integrating real-time financial data and decision-making algorithms to significantly improve trade volume and profitability.

KEYLOGGER   **December 2023 – April 2024**
- Designed a proof-of-concept keylogger, stealthily embedded in a Snake game, to demonstrate how malicious actors can capture keystrokes and steal credentials (e.g., Chrome-saved passwords) then send them to attacker through Telegram.

PROSPIRE FINANCIAL TELEGRAM BOT   **May 2023 – September 2023**
- Developed the Telegram Bot, a user-friendly platform for obtaining financial data for Vietnamese companies.
- The bot was integrated with Prospire's financial data resources, ensuring access to reliable and up-to-date information.
- Users could request specific company data, and the bot fetched and presented the requested balance sheets, income statements, and financial ratios in an easily understandable format.
- The bot streamlined financial analysis processes and made it more accessible to a wider audience, saving time and resources.

ADDITIONAL INFORMATION

- Certification
  - CCNA: Switching, Routing, and Wireless Essentials, October 2024
  - CyberOps Associate, Cisco, March 2023
  - Cloud Security Alliance, Cisco, Oct 2023
  - Applied Cryptography Specialization, Coursera, Oct 2023
  - CertNexus Certified Ethical Emerging Technologist, Coursera, May 2023
  - CCNA: Introduction to Networks, Cisco, November 2022
  - Honorable Student of Trimester. Fall 2023
  - Honorable Student of Trimester, Fall 2024
  - Honorable Student of Trimester, Spring 2025