Trịnh Hoàng Tú

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SUMMARY

Third-year Cybersecurity student specializing in secure application development (ASP.NET C#, Java). Eager to apply practical project experience in a professional penetration testing and code review environment. Solid foundation in network security and practical security frameworks.

EDUCATION

Bachelor of Cybersecurity   Nov 2023 – Jul 2027 (Expected)

Ho Chi Minh City University of Foreign Languages and Information Technology   *Ho Chi Minh City*
   – GPA: 3.37/4.0
   – Relevant Courses: Network Security, C#, Java, Web & Mobile Development, ASP.NET.

EXPERIENCE

Independent Developer   2023 – Present

Ho Chi Minh City
   – Built multiple Android applications and browser utilities as independent study projects, focusing on usability, performance, and secure coding practices.
   – Developed proof-of-concept automation tools for data scraping, browser automation, and testing workflows.
   – Applied containerized environments using Docker and Git version control for reproducible project setups.

PROJECTS

Yodobashi Sniper V2 (Browser Extension, Manifest V3)

   – Automated product purchase workflow using **JavaScript (ES6+)**, HTML5, CSS3, and Chrome APIs.
   – Implemented async/await, cross-origin messaging for secure data transfer, and robust DOM manipulation.
   – Used Node.js/npm for dependency management and Playwright for end-to-end automated testing.

Face / Object Recognition (Java + Python Microservice)

   – Engineered a multi-threaded Java server using TCP sockets secured with **SSL/TLS encryption**.
   – Developed a Python microservice exposing a REST API (Flask/FastAPI), leveraging OpenCV and `face_recognition`.
   – Java server communicates securely with the Python service over HTTPS for inference, returning results to clients.

Mini SOC Environment (Elastic Stack + Winlogbeat)

   – Built a miniature Security Operations Center (SOC) using **Elastic Stack, Winlogbeat, and Suricata** to collect and visualize security events from simulated attack scenarios.
   – Configured dashboards in Kibana for real-time detection of anomalies, brute-force attempts, and web exploitation patterns.

Cloud Threat Detection with AWS GuardDuty

   – Deployed AWS **GuardDuty** to monitor malicious activity and unauthorized access within EC2 and S3 environments.

    – Integrated findings into a centralized alerting workflow via CloudWatch and SNS for automated security response testing.

English Master (Android, Java)

    – Built an **Android learning app in Java** providing vocabulary study, flashcards with spaced repetition, and quiz/exam features.
    – Integrated **social login** (Google/Facebook) for user authentication and personalized learning progress.
    – Implemented dictionary lookup and progress tracking.

Technical Skills

Security	Kali Linux, Wireshark, Nmap, Burp Suite, Metasploit, dnSpy, Volatility
Analysis	Postman, Hex Editor, Process Monitor, Elastic Stack (Kibana, Winlogbeat)
Languages	C#, Java, Python
Framework	ASP.NET MVC
Databases	SQL Server, Firebase
Tools	Git, Docker

Awards

- Winner – **HSU Vibe Coding Talents 2025**
- Awarded "Outstanding Student of the Year 2023" by Bu Dang District, Binh Phuoc Province.

Certificates

- Foundations of Cybersecurity - *Google x Coursera* (Link).
- Google AI Essentials - *Google x Coursera* (Link).