# 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: 3.44/4.0
– 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

**AI-Powered LMS - toanvotruongtoan.com (Fullstack & DevSecOps)**

– Architected and deployed a Production-ready Learning Management System using React, Supabase, and Vercel, serving hundreds of students.
– Integrated *Gemini AI* for automated exam generation and intelligent tutoring, leveraging Cloud-native capabilities.
– Applied defense-in-depth security: Server-side Rate Limiting (30 req/min), Input Validation, and strict Supabase Row-Level Security (RLS) policies.
– Enforced strict Row-Level Security (RLS) and PostgreSQL policies to ensure 100% data isolation in a multi-tenant environment.
– Optimized performance with a Serverless architecture on AWS/Google Cloud, achieving <100ms response times and SSL A+ rating.

**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.

TECHNICAL SKILLS

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|---|---|
| **Security** | Kali Linux, Wireshark, Nmap, Burp Suite, Metasploit |
| **Analysis** | Postman, Hex Editor, Process Monitor, Elastic Stack (Kibana, Winlogbeat) |
| **Languages** | C#, Java, Python |
| **Framework** | ASP.NET MVC |
| **Databases** | MSSQL Server, PostgreSQL, Firebase, Supabase |
| **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

- Certified Cybersecurity Educator Professional (CCEP) - *Red Team Leaders* (Link).
- Foundations of Cybersecurity - *Google x Coursera* (Link).
- Google AI Essentials - *Google x Coursera* (Link).
- Network Architecture - *Google x Coursera* (Link).