THANG Q. NGUYEN

thang.nguyen@alumnos.upm.es | nqthangcs.github.io | nqthangcs | 0009-0007-7374-6400

Madrid, Spain

Education

- **Universidad Politécnica de Madrid (UPM)** — Madrid, Spain
  M.Sc in Software and Systems — *Sep 2026 – Present*
- **University of Science, VNU-HCM** — HCMC, Viet Nam
  B.Sc. (Honors Program) in Information Technology — *Oct 2022 – Aug 2026*
  - Advisors: Anh-Duy Tran and Prof. Minh-Triet Tran.
  - Thesis: *Automated Extraction of Attack Surfaces and Threat Elicitation from Source Code for AI-Based Systems*. Thesis grade: 10/10.

Professional Experience

- **Computer Security Lab - University of Science, VNU-HCM** — HCMC, Viet Nam
  Research Assistant — *Mar 2025 — Aug 2026*
  - Supervisor: Anh-Duy Tran
  - Developed web applications using Flask (Python) and Laravel (PHP) to support controlled experiments in threat modeling research.
  - Implemented representative web application vulnerabilities to emulate realistic attack scenarios.
- **Trex Team** — Viet Nam
  Penetration Tester — *Apr 2024 — Aug 2026*
  - Conducted security assessments and penetration testing on enterprise-grade web applications.
  - Authored detailed vulnerability reports with actionable remediation recommendations.

Patents and Publications

C=Conference, J=Journal, P=Patent, S=In Submission, T=Thesis

[C.1] Quang-Thang Nguyen, Minh-Triet Tran, Anh-Duy Tran (2026). **ATMAI: Automated Threat Modeling for AI-based System**. Accepted at the 13th International Conference on Future Data and Security Engineering (FDSE 2026).

[C.2] Quang-Thang Nguyen*, Gia-Phuc Song-Dong*, Trung-Nghia Le (2025). **Budget-Aware Keyboardless Interaction**. In: Information and Communication Technology. SOICT 2024. Communications in Computer and Information Science, vol 2352. Springer, Singapore. https://doi.org/10.1007/978-981-96-4288-5_21.

Fellowships and Grants

- **Rising Scholars Fellowship Programme** — Singapore
  Singapore Management University — *May 2026*
  - Selected for a competitive five-day programme introducing SMU's PhD programme through faculty meetings, research group visits, and networking with PhD students and prospective supervisors.
- **AsiaCCS 2025 Local Participant Grant** — Ha Noi, Viet Nam
  AsiaCCS 2025 Organizing Committee — *Aug 2025*

Selected Honors and Awards

- **Runner-up at PwC Hack A Day (Viet Nam group)** — *Nov 2024*
  Issued by PwC Hong Kong [🌐]
  - Ranked top 10 overall as *blackpinker*
- **Consolation prize at ASEAN Student Contest on Information Security 2024** — *Oct 2024*
  Issued by Viet Nam Information Security Association (VNISA) [🌐]
  - Attack-Defense group, with team *HCMUS.C2*
- **Consolation prize at ASEAN Student Contest on Information Security 2023** — *Nov 2023*
  Issued by Viet Nam Information Security Association (VNISA) [🌐]
  - Jeopardy group, with team *HCMUS.Corpse_Reviver_2*
- **Dean's certificate for active participation in extra-curricular activities** — *Dec 2023*
  Issued by Dean of the Faculty of Information Technology, VNUHCM-University of Science [🌐]

Skills

- **Programming:** C, C++, Python, Javascript, Java
- **Security:** Penetration testing (Burp Suite, OWASP), Static analysis (semgrep), Dynamic analysis (Frida), Threat modeling
- **Tools:** Git, Linux, Docker, Jenkins
- **Research Skills:** Technical writing, Academic research, Literature review
- **Languages:** English (Professional)

Leadership Experience

- **Global Cybersecurity Camp 2026** *Mar 2026*
  Staff https://gcc.ac/
  - Supported organization of an international cybersecurity training camp for students.
- **HCMUS-CTF 2024 & 2025** *2024–2025*
  Deputy Head of Organizing Committee HCMC, Viet Nam
  - Co-organized two consecutive editions of HCMUS-CTF, a Jeopardy-style cybersecurity competition, with 40+ teams from HCMUS in 2024 and 90+ university teams nationwide in 2025.
  - Oversaw event logistics, communications, and coordination across multiple sub-teams, working closely with faculty members to ensure smooth execution.
  - Contributed to the development and review of CTF challenges as part of the authoring team.
- **Computer Security Club – University of Science, VNU-HCM** *2023 – 2025*
  Executive Committee Member (2023–2024) & Vice President (2024–2025)
  - Served on the club's executive board, contributing to the planning and execution of cybersecurity workshops, seminars, competitions, and community activities.
  - Coordinated with fellow board members to manage club operations, organize educational events, and support the development of junior members.
  - Authored cybersecurity content for the club's fanpage to promote cybersecurity awareness and community engagement.
  - Represented the club in national and international CTF competitions.

Projects

- **Remote Desktop** *Computer Networks course project*
  Technologies: C++, socket, ImGui [GitHub]
  - *Description:* Developed a high-performance remote desktop application that allows users to remotely access and control multiple computers over a network. The app supports concurrent connections, allowing one computer to control many devices simultaneously with minimal latency.
  - *Role:* Designed and implemented the user interface using ImGui. Integrated the UI with data fetched from the network layer using efficient socket programming.
- **ZNZ Video Conferencing App** *Introduction to Software Engineering course project*
  Technologies: TypeScript, React, ExpressJs, PostgreSQL, Redis, Mediasoup [GitHub]
  - *Description:* ZNZ is a user-friendly video conferencing application offering real-time audio and video communication, meeting management, and interactive features to make virtual collaboration seamless and engaging.
  - *Role:* Designed and developed the backend APIs using Express.js.
- **Android Coffee Store Application** *Mobile Application Development course project*
  Technologies: Android Java, Android XML [GitHub]
  - *Description:* Developed a fully functional mobile application for a coffee store, allowing users to browse coffee products, view product details, and add items to their cart.
  - *Role:* Designed and implemented the frontend UI/UX, ensuring a seamless user experience with intuitive navigation.