

Duc Nguyen

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EDUCATION

- **Nguyen Binh Khiem High School for the Gifted** Da Nang, Viet Nam
 - *Specialized Class in Informatics* Jul. 2023 – Present
 - Coursework: Data Structures and Algorithms, Web Development, Database Management Systems.
- **CyberJutsu** Viet Nam
 - *Web Penetration Testing Course* Jul. 2025 – Present
 - Topics include common web vulnerabilities, exploitation techniques, and writing security reports.
- **CyberClass – CyberKid** Viet Nam
 - *Cybersecurity Fundamentals Course* 2022
 - Built foundational awareness of cybersecurity and internet safety.

SKILLS SUMMARY

- **Security:** Web Penetration Testing, OWASP Top 10, Network Security, CTF
- **Languages:** C++ (Competitive Programming), Python (Automation/AI), PHP, JavaScript, SQL
- **AI & Data:** RAG, Multi-Agent Systems, Prompt Engineering, KNN, Scikit-learn
- **Frameworks & Tools:** Django, Node.js, Docker, Git, Linux (Ubuntu/Kali), PostgreSQL
- **Soft Skills:** Problem Solving, Technical Writing, Leadership, Teamwork

ACTIVITIES

- **Admin and Contributor, Nguyen Binh Khiem Online Judge (NBKOJ)** 2022 – Present
 - *Assisted in maintaining and developing the platform.*
- **Problem Setter and Technical Supporter, Pre-TS10 Exam** May 2025
 - *Competitive Programming Contest*
 - Created problem sets for the Pre-enrollment 10th-grade specialized Informatics exam in Quang Nam Province.
 - Supported the technical operation of the online judging platform during the contest to ensure a smooth testing experience for all candidates.

PROJECTS

- **IT-ESC Research System (*Multi-Agent System, Prompt Engineering*):** Built a multi-agent system to automate research support, focusing on information extraction and synthesis. The system searches, analyzes, and generates initial literature reviews from user-defined keywords. Jan. 2025
- **NBK Chatbot (*Retrieval-Augmented Generation, Large Language Model*):** Developed an internal Q&A chatbot for the school using a private knowledge base. Applied RAG and NLP techniques to improve retrieval quality and answer student inquiries more accurately. Mar. 2024
- **Quang Nam Historical Platform (*Content Management System, Recommendation System*):** Developed a CMS-based blog platform for exploring local history and culture. Implemented a K-Nearest Neighbors (KNN) algorithm to recommend relevant articles to users. Aug. 2022

HONORS AND AWARDS

- **Honorable Mention, Vietnam Olympiad in Informatics** 2026
 - National competition organized by the Ministry of Education and Training for Vietnamese high-school students; a preliminary round for selecting representatives to the Team Selection Test (TST).
- **Third Prize, Vietnam Science and Engineering Fair** 2025
 - National competition organized by the Ministry of Education and Training for Vietnamese high-school students; a preliminary round for selecting representatives to the International Science and Engineering Fair (ISEF).
- **Third and Fourth Prize, National Informatics Competition for Youth** 2022, 2024
- **Second Runner-up, Finals of “Junior Hacking Talent 2021”** 2021
 - Jeopardy-format capture-the-flag competition for the junior high school division.