Khanh Nguyen

Email: knguyen1462@gmail.com • Phone: +33 7 64 41 71 45 • Github: https://github.com/ngkan • Linkedin: https://www.linkedin.com/in/khanhnguyenbx/

Education

Ecolé Polytechnique   Palaiseau, France
    Bachelor of Science in Mathematics & Computer Science   *Sep 2019 – Jul 2022 (expected)*
- Awarded Excellence Scholarship from the École Polytechnique Foundation.

Experience

Huawei Paris Research Center | Research intern   Jun 2021 – Present

NavAlgo | Machine learning intern   Jul 2020 – Aug 2020
- Applied NLP onto C++/Python source codes to detect and fix common implementation mistakes.
- Refined and analyzed raw data to improve BERT and CLARA training process.
- Detected bug patterns that open-source bug-detecting tools cannot detect.

VinAI | Machine learning intern   Jun 2019 – Aug 2019
- Generated a face dataset of 50,000 images with OpenCV and a face detector (SSH).
- Implemented detection by training from scratch ResNet50 & InceptionResNetV2 model. Achieved an average accuracy of 96%.

Awards & Achivements

Codeforces Grandmaster (top 0.4%) | Codeforces
Codeforces is one of the largest competitive programming websites, with over 95000 active users.

Contestant | ICPC World Finals 2020   20??
The International Collegiate Programming Contest is the most prestigious competitive programming competition for colleges students. Will be competing in team of 3 to solve 10-13 algorithmic challenges under 5 hours.

Champion (1st / 95) | ICPC SWERC 2019-2020   2020

Bronze Medal | International Olympiad in Informatics   2018
The IOI is the most prestigious computer science competition in the world for secondary and high school students.

Silver Medal (6th / 75) | ICPC Asia Jakarta Regional 2018   2018

Champion (Rank 1st/197 & 1st/236) | ICPC Vietnam National Contest   2017 & 2018

Projects

VNOI Online Judge | Online programming website
- Customized an open-source Python Markdown engine to add new features to the comment section.
- Worked on internationalization and localization to support multiple languages for user experience.
- Enhanced user experience by upgrading UI design and detecting & fixing bugs.

Trading platform ++ | Virtual trading application
- Worked in a team to designed and implemented the core utilities and UI, using C++ and Qt graphical libraries.

CPL | Competitive programming library
- Implemented various algorithmic algorithms and data structures for problem solving in C++.

Activities

VNOI | Technical team member   2020 – Present
- Improved and maintained a programming website, a programming challenges database, and a Discord bot.

National Informatics Training Camp | Instructor   2017 – 2020
- Coached top students in Vietnam to prepare for the National & International Olympiad in Informatics.

Skills

Programming languages: C++, Python, Javascript, Bash
Tools: Linux, Git
Communication: English: Fluent; French: Intermediate learner; Vietnamese: Native