

Vinh Nguyen

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EDUCATION

- **Ecole Polytechnique** Palaiseau, France
Bachelor of Science - Double degree in Mathematics and Computer Science Sep 2019 – Jun 2022 (expected)

EXPERIENCE

- **VinAI Research Lab** Hanoi, Vietnam
AI Engineer Intern May 2019 - Aug 2019
 - Collected raw data from different online sources to form a dataset called **PlasticVNOI**, which consisted of over **1000 images containing plastic bags**. Most of the images were then annotated manually, while the others were machine-annotated and human-verified.
 - Integrated the **PlasticVNOI dataset** with the well-known **PASCAL VOC dataset**, and eventually used the combined data to develop an accurate **Faster RCNN** model to detect plastic bags on many polluted streets in Vietnam.
 - **Utilizing:** Tensorflow, OpenCV, Keras.
 - **Source:** <https://github.com/ngthanhvinh/plasticbag-faster-rcnn>.
- **HUS High School for Gifted Students** Hanoi, Vietnam
Informatics Tutor Jan 2017 - Jan 2019
 - Instructed high school students to prepare for the Vietnam National Olympiad in Informatics, with the content covering from the **C/C++ programming language** to **algorithms** and **data structures**.

AWARDS AND HONORS

- **Top 5**, Vietnam Team Selection Contest in Informatics May 2018
- **Gold Medal**, Singapore National Olympiad in Informatics Mar 2018
- **First Prize**, Vietnam National Olympiad in Informatics Jan 2018
- **Third Prize**, Vietnam National Olympiad in Informatics Jan 2017

PROJECTS

- **React 2D Gameboard, HSGS Hackathon 2018**
 - Led a team of 4 students to design the online graphical interface for several 2D math puzzles with **ReactJS**.
 - **Source:** <https://github.com/ngthanhvinh/hsgs-hackathon-18>.
- **SDL Tetris**
 - A well-designed console game based on the traditional Tetris game with some modified rules.
 - Implemented all logical "back-end" functions (such as scoring, rotations and left/right/down movements) for the game.
 - **Source:** <https://github.com/zimportant/SDL-Tetris>.
- **ObjTest**
 - A web app which is able to classify the object on images.
 - **Utilizing** Flask back-end, React front-end, Tensorflow, VGG16 pre-trained model.
 - **Source:** <https://github.com/ngthanhvinh/ObjTest>.

PROGRAMMING SKILLS

- **Languages:** C/C++, Python, JavaScript, TypeScript.
- **Technologies:** Git, React, NodeJS, Flask, Tensorflow, OpenCV, Keras.