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 to create **PlasticVNOI**, a dataset consisting 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.
  - Languages - Technologies: **Python, Tensorflow, OpenCV, Keras.**
  - Source: https://github.com/VinAIResearch/plasticbag-faster-rcnn.

- **HUS High School for Gifted Students** — Hanoi, Vietnam
  Teaching Assistant — **Jan 2017 - Jan 2019**
  - Taught **C/C++ programming language, algorithms and data structures** to a group of 10 students preparing for the Vietnam National Olympiad in Informatics.

ACHIVEMENTS AND AWARDS

- **Ranked 1st**, Southwestern Europe Regional Contest (SWERC) 2019-2020 — **Jan 2020**
  - Competed in a team of three to solve 10-12 algorithmic problems in five hours, using C++/Python. In total, 100 teams from 51 institutions of Southwestern Europe (France, Switzerland, Spain, Italy, Portugal and Israel) participated in this contest. Qualified for the ICPC World Finals 2020 in Moscow.

- **Gold Medal**, Vietnam National Olympiad in Informatics — **Jan 2018**
  - Competed individually to solve 4 algorithmic problems in **C++** during 3 hours. The competition was officially organized by Vietnam Ministry of Education and Training, in which over 10,000 high school students across Vietnam participated.

- **Gold Medal**, Singapore National Olympiad in Informatics — **Mar 2018**
  - Invited to Singapore to compete with the best contestants in Southeast Asia, solving algorithmic problems in 5 hours. Won the first place with a perfect score.

- **Top 1%**, Codeforces
  - Codeforces is a competitive programming website with over 60,000 active users.

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 **React**.
  - Source: https://github.com/ngthanhvinh/hsgs-hackathon-18.

- **ObjTest**
  - A web app for object classification, utilizing the **VGG16 pretrained model**.
  - Languages - Technologies: **Python, JavaScript, NodeJS, Flask, React, HTML, CSS, Tensorflow, Keras.**
  - Source: https://github.com/ngthanhvinh/ObjTest.