

# VIET-ANH NGUYEN

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## Skills

**Programming languages** (Python, C++, Javascript), **Computer Vision and AI** (OpenCV, Tensorflow, Keras, PyTorch, TensorRT), **Software Development** (Flask, ReactJS, Docker, Qt, Electron, Docker, Git).

**Language:** TOEIC 885.

## Experience

<b>AI TECHNOLOGY SPECIALIST</b> 10/2020 - now: full-time	<b>VINGROUP BIG DATA INSTITUTE</b> <a href="https://vinbigdata.org/">https://vinbigdata.org/</a> and <b>VINAI</b> <a href="https://www.vinai.io/">https://www.vinai.io/</a> - Trainee. I deepen my knowledge in AI field by participating in some courses and leading some projects. Projects from my team: <a href="https://vnopenai.org/projects/">https://vnopenai.org/projects/</a> . - Autonomous vehicle engineer.
<b>AI ENGINEER</b> 03/2020 – 10/2020: full-time 09/2019 – 03/2020: part-time	<b>KAOPIZ SOFTWARE CO., LTD</b> <a href="https://kaopiz.com/">https://kaopiz.com/</a> - Researched and developed machine learning and computer vision solutions for the Japanese market: image processing, object detection & segmentation, information extraction from document scans.
<b>TEACHING ASSISTANT</b> 08/ 2019 – 01/2020	<b>HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY</b> - Prepared course content and guided undergraduate students in a Database course.
<b>INTERN</b> 06/2018 – 08/2018	<b>ARROW TECHNOLOGIES VIETNAM</b> - Worked on 3D reconstruction from 2D images.

## Education

**ENGINEER DEGREE on IT**  
2015 – 2020

**HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
CPA: 3.3

### CERTIFICATIONS:

- 2019: Fundamentals of Deep Learning for Computer Vision – Issued by NVIDIA Deep Learning Institute.
- 2020: Deep learning Specialization (5 courses) – Issued by DeepLearning.ai and Coursera.

## Projects

1. **Tech lead and developer of VIA – 3D-printed self-driving car:** <https://via.makerviet.org/vi/>.
2. **Leader and developer of some open-source projects at VNOpenAI:** VN AIDr - open medical imaging, VN Accent – adding Vietnamese accent for text, Pushup counter: <https://vnopenai.org/projects/>.
3. **Developer of Advanced driver-assistance system on Jetson Nano hardware (The Best Presentation Award for Graduation Thesis – NVIDIA Jetson Project of the Month Prize):** Forward collision warning, lane departure warning, traffic sign recognition and overspeed warning.
  - **Tech stack:** C++ (user interface and inference code), Python (data processing and training), Qt, ResNet-18, U-Net, CenterNet, Tensorflow, PyTorch, TensorRT.
  - **Link:** <https://news.developer.nvidia.com/jetson-project-of-the-month-driver-assistance-system-using-jetson-nano/>
  - **Source code:** <https://github.com/vietanhdev/open-adas>

4. **Autonomous Car Projects:** Self-driving car ROS node in a simulated environment.  
I worked on the system architecture, semantic segmentation model and car control.
  - **Tech stack:** Python, E-Net, U-Net, Faceboxes, Robot Operating System (ROS).
  - **Source code:** <https://github.com/vietanhdev/autonomous-car-2020>,  
<https://github.com/vietanhdev/autonomous-car-2018>
5. **Developer of FaceCam:** A desktop camera app with face decorations and filters.
  - **Source code:** <https://github.com/vietanhdev/facecam>.
6. **Developer of BattleShip (Group Project – course taught by Got-it <https://vn.got-it.ai/>)**  
A realtime online battleship game with chat room.
  - **Tech stack:** ReactJS, Flask, SocketIO, Docker, Docker Compose, AWS VPS.
  - **Source code:** <https://github.com/NguyenSyAn/online-games>.

## Achievements

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- **11/2020: The Jetson Project of the Month – October 2020 – NVIDIA Corp.**
- **07/2020: Best Presentation Award for undergraduate thesis presentation** Committee: Global ICT No. 1 – School of Information and Communication Technology – Hanoi University of Science and Technology.
- **06/2020: Runner Up - SoICT - IBM Hackathon 2020:** I led a 4-member team to build a paper streaming solution for remote education. I was responsible for algorithms to capture drawing strokes and handwritten text from a phone camera, filter and create video streaming.
- **01/2020: The First Prize - FPT's Driverless Car Challenge - University round at Hanoi University of Science and Technology.**
- **09/2017: HUST - SIT Global Project-based Learning Program:** I received a scholarship for a short-term robot course in Tokyo, Japan, held by Hanoi University of Science and Technology and Shibaura Institute of Technology.