Dat Thanh NGUYEN

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EXPERIENCE

- **Vulcanlabs** — Vietnam
  AI Engineer — *Jan 2021 - Present*

  - Researched and deployed Text-To-Speech. Applied on IOS application. Text To Speech: Audio Books
  - Created text normalization module for Non-Standard Words to convert standard text to pronounceable text.
  - Researched Facial Makeup model.

- **GE3F Co.LTD** — Vietnam
  AI Engineer — *Dec 2019 - Dec 2020*

  - Solved cutting-edge industrial computer vision problems given the strict constraints of the manufacturing environment.
  - Researched and applied state-of-the-art ML/DL models for Object Detection, Classification, and Semantic Segmentation problem such as Mask RCNN, YOLO, EfficientDet, EfficientNet, DeepLab.
  - Built model with quality inspection system's accuracy $\geq 90\%$ by applied multiple SOTA method like: augmentation, label smoothing, ciou,...

- **EyeQ Tech** — Vietnam
  AI Engineer — *Jun 2019 - Nov 2019*

  - Researched and developed Deep Learning model for Vietnamese identified card problem.
  - Researched and applied state of the art ML/DL techniques to solve vietnamese optimal character recognition (OCR), word detection, word recognition, object detection, semantic segmentation.
  - Build model accuracy achieve 81% on front id cards include three field: Id, Name, Day of birth.

- **HasBrain Inc** — Vietnam
  Backend Engineer Intern — *Jun 2018 – Sep 2018*

  - Participated in a clothing rental subscription service development namely Madthread under the guidance of senior instruction.
  - Accessed project requirements using Scrum principles and then designed backend system architecture.
  - Implemented and documented specific call API request. Doing code review.

Education

- **Back Khoa University- Vietnam National University HCMC**   Vietnam
  Bachelor of Engineering in Computer Science   *Sep. 2015 – Apr. 2020*
  Graduate thesis: Accident Detection in Traffic Surveillance Video

  - Grade: 9.14/10
  - Supervisor: **Dr.** Thanh-Sach Le, **Dr.** Rang Nguyen, **Dr.** Tuan-Anh TRAN
  - Responsibilities:
    * Researched state of the art ML/DL solving on videos.
    * Collected, cleaned and pre-processed accident videos from youtube and liveleak.
    * Archived model with 90% of AUC and $\approx 5\%$ of false alarm rate.
    * Built end-to-end systems.

- **Convolutional Neural Networks for Visual Recognition CS231n**   Stanford University
  Public Course

- **Deep Learning Specialization**   deeplearning.ai
  Instructor: Andrew Ng.

Technical Skills

- **Languages/Framework**: Python, C++, Tensorflow, PyTorch, OpenCV.

- **Other**: Nodejs, Git, Django, Docker, Kubernetes.

Honors & Rewards

- **2020**

  - Top 6 public leaderboard in the Credit Scoring Challenge orangized by Kalapa .JSC.
  - Honorable Mention Awards in the Zalo AI Challenge 2020's Voice Verification competition.
  - Honorable Mention Awards in the Zalo AI Challenge 2020's Traffic Sign Defection competition.

- **2021**

  - Honorable Mention Awards in the Zalo AI Challenge 2021's 5K Compliance competition.

References

- **Dr.** Thanh-Sach Le, Bach Khoa University - VNUHCMC
  Head of Graphics & Vision Lab