HOANG DUC MINH TRIEU

Gender: Male   *• Date of birth: 05/12/2000*
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EDUCATION

Hanoi University of Science and Technology   *Ha Noi, Viet Nam*
Mathematics and Informatics Engineer   *08/2018 – 8/2023*
GPA: 2.67 / 4.0

WORK EXPERIENCE

Simulation Model Center – Viettel High Tech   *Ha Noi, Viet Nam*
Interns researching and developing artificial intelligence algorithms   *05/2022–6/2023*
o **3DR VTO:**
  ▪ Having participated in the development of fashion product systems to try virtual costumes. Having built a Head Swap module with evaluation metrics used as EP, SSIM, LPIPS, PSNR, achieving corresponding results of 0.022, 0.90, 0.09, 34.82 on the test dataset (VoxCeleb2) and Viettel dataset. The current results are the state of the art, submitted in the scientific journal Vol 29 No 2 (2023) MENDEL JOURNAL. Having been deployed into a product.
  ▪ Having participated in the development of a realtime shoe fitting system. Having built 18 Keypoint datasets with foot.

ComVis Lab – MICA Research Center, Hanoi University of Science and Technology   *Ha Noi, Viet Nam*
Research assistant   *09/2021 – 09/2022*
  ▪ **Researching**: AI algorithms for image processing. Building neural networks, convolutional neural networks, and Bayesian neural networks. Predicting the direction of human motion and velocity based on the influence of social interactions and surrounding environments.

Hanoi University of Science and Technology   *Ha Noi, Viet Nam*
Teaching assistant   *08/2022 – 03/2023*
  ▪ **Image processing:** Support teaching, preparing papers and grading digital image processing subject exercises. Instructing programming of pixel-level operations, histogram equalization, image segmentation, feature extraction from images, and other related techniques.

Fushan Technology Vietnam - Foxconn   *Bac Ninh, Viet Nam*
Test Engineer   *7/2023-12/2023*
o **Google Project: Google Pixel 8, 8 Pro:** As a software engineer, my role involves operating, maintaining, and being responsible for product testing stations that use cameras, such as those that identify errors on products or analyze colors on screens, etc... Developing and improving test stations, handling and analyzing errors that occur during the production process, and working with customers.

SKILLS

  ▪ **Programming languages**: Python, SQL, C/C++ (Basic).

  ▪ **Language proficiency:** English (Basic Communication), Aptis B1.

  ▪ **Understanding AI frameworks**: Tensorflow, Pytorch, Numpy, Pandas,..

  ▪ **Knowledge of AI models and image processing techniques, computer vision:** YOLO, Object Detection,

  Color recognition, Segmentation, Image Classification, Data Augmentation and recognition techniques: OCR.

  ▪ **Other knowledge of:** Blockchain. Data Warehouse, data modeling, data visualization, building dashboards using Power BI for decision support. Data ETL, data mining, data analysis, and prediction using AI and ML models. Proficient in Excel and Google Sheets.

ACHIEVEMENT

  ▪ **Publication:** Q1 article titled "*A hybrid photorealistic architecture based on generating facial features and body reshaping for Virtual Try-on Applications"* in Vol 29 No 2 (2023) MENDEL JOURNAL.

  ▪ **Winning:** The Creativity Award at the Student Research Conference 2023. Hanoi University of Science and Technology.

  ▪ **Certification:** Neural Networks and Deep Learning.