📍 Binh Chanh, Ho Chi Minh City

Nguyễn Thành Phát

AI ENGINEER - DATA SCIENTIST - WEB/SOFTWARE DEVELOPER.

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Education

Nguyen Tat Thanh University (NTTU)   2020 - 2024

Engineer of Information Technology - Data Science Specialization.

GPA: **3.57 / 4.0** - Top **2** of K20's faculty - Degree classification: **Very good.**

Transcript: page 1 - bit.ly/4aQWboQ | page 2 - bit.ly/4aPSLTb

- Capstone Project: **NTTU Chatbot - RAG System in Vietnamese**.
  (Source code: https://github.com/phatjkk/nttu-chatbot)
- Achievement: **First prize at NTTU AI Hackathon 2022** - Topic: Covid-19 prediction.
  (Certificate: bit.ly/3vRAd6b)

Technical skills

- Deep / Machine Learning
- Python / Scikit-learn
- TensorFlow, Pytorch
- Transformers / Huggingface
- Large language model / RAG

- Data cleaning/analytics
- Selenium/ Scapy (Craw)
- Pandas, PySpark
- Text /Audio classification
- Time-series prediction

- HTML / CSS / Javascript
- NodeJS / ReactJS / PHP / Git
- MySQL / MongoDB / Vector DB
- C# ASP.NET MVC / WPF
- Java / FastAPI / Wordpress

Professional Experience

TMA Solutions   September - December 2023
AI Intern

- Revise Python, OOP, build "**Guessing Card Game**" for practice.
  (Source code: github.com/phatjkk/card-guessing-game)
- Learn Git/Github, Linux command-line, Docker (microservice)
- Build "**Vietnamese Text-to-speech Web Application**" for practice.
  (Source code: github.com/phatjkk/vits-tts-vietnamese)
- Cooperate, support in company's text generation project.
- Boss feedback: bit.ly/49wlgUY

Languages

- English (Fluent - Intermediate)
- Vietnamese (Native)

Certificates

TensorFlow Developer Certificate   2022 - 2026

Foundational/practical machine learning skills using Google Tensorflow.

- ID: e0d73e11-673c-4116-bd9c-976aea8d6ef3
- (View: bit.ly/3Ud9WZe)

Personal Project

Learning from ProtonX, DataCamp, F8, Udemy.

Machine Learning

- **NTTU Chatbot (RAG)** (Langchain, vLLM, Transformers, ReactJS, FastAPI):
  Source: github.com/phatjkk/nttu-chatbot
- **Vietnamese Text to Speech VITS** (Pytorch, Piper, Docker, ReactJS, Tornado Web)
  Source: github.com/phatjkk/vits-tts-vietnamese
- **Bloom LoRA Chatbot** (Python, transformers)
  Source: github.com/phatjkk/lora-experiment-1
- **Speech-to-text in Vietnamese with Wav2vec2** (Python, Huggingface Transformers)
  Source: github.com/phatjkk/wav2vec2-vietnamese-finetuning
- **English - Vietnamese Translation Model** (Python, Huggingface Transformers)
  Source: github.com/phatjkk/bart-translate-vi-en
- **Vietnamese Toxic Text Classification** (Python, PySpark)
  Source: github.com/phatjkk/vietnamese-toxic-text-detect-pyspark

Data Analysis/Visualization

- **Covid19 Vietnam Analysis (PowerBI)**:
  Source: github.com/phatjkk/covid-19-powerbi

Windows Application

- **Dragon Speak** (C#, Python, WPF, Zalo Speech API, Visual Studio) [**100+ stars** on Github]
  Source: github.com/phatjkk/SpeakIt_Vietnamese_TTS
- **Dragon Translator** (C#, WPF, OCR, Visual Studio) [**20+ stars** on Github]
  Source: github.com/phatjkk/DragonTranslator

Website/Web Application

- **CozaStore** - E-commerse website (ASP.NET MVC, C#, Javascript, HTML, CSS)
  Source: github.com/phatjkk/coza-store-e-commerce
- **Metabox -** Watch movie online with torrent (ReactJS)
  Live demo: phatjkk.github.io/movie | Source: github.com/phatjkk/torrent-stream-site
- **ErialShop** - Handmade Jewelry Store (Wordpress)
  Live demo: erialshop.com
- **Phatjk website** - My personal website (ReactJS)
  Live demo: phatjkk.github.io | Source: github.com/phatjkk/phatjk-site
- **Tarot Game** - Fortune teller with Tarot cards
  Live demo: phatjkk.github.io/tarot | Source: github.com/phatjkk/tarot-vietnamese-project

(See more in my Github profile - github.com/phatjkk)