

EDUCATION

- **University of Engineering and Technology** VNU, Hanoi
• *Bachelor of Science in Information Technology; GPA: 3.57* *Oct. 2022 – Present*

PROJECTS

- **A Method for Generating Web Application UI Test Cases: Description:** Developed an automated testing method that generates UI test cases from natural language descriptions and images. The approach integrates NLP, traditional methods and computer vision to simulate UI behaviors.
Role: Researched, implemented, and optimized the validating result method for test case generation pipeline.
- **AWS basic machine learning pipeline:** Demonstrate how to deploy an AI model on AWS SageMaker using a custom Docker image. Covers the entire workflow, including creating a training job, deploying an inference endpoint, and invoking predictions.
- **A simple CI/CD pipeline for fullstack projects:** Provides a simple on-premise CI / CD pipeline implementation to automate security scanning, building, testing, and deployment of a containerized application on Kubernetes. Integrates SAST, SCA, DAST, performance testing, and Telegram notifications for reporting.
- **Triton Inference Server:** Provides an example of customizing a Python backend for the Triton Inference Server. The implementation demonstrates how to modify the Triton server to support specific and efficient deep learning inference workflows.
- **Billard Shop:** An e-commerce platform built on Magento 2, designed to sell billiard supplies online. This project provides a Dockerized environment for easy deployment and management.
- **Q Airline:** A full stack web application that provides flight information and booking support. This project provides a Dockerized environment for easy mock deployment.
- **Minbert:** A mini BERT model with multiple layers and pretraining it using contrastive learning for the Quora Question Pairs task.
- **English Learning Application:** Bilingual (English-Vietnamese and Vietnamese-English) dictionary features and interactive vocabulary games like Hangman and Crossword.
- **Dissneland Game:** A top-down action game where players control a swordsman to defeat enemies and progress through levels..

Note: The project details are available at www.cuongnv.social.

KNOWLEDGE

- Automation of workflows and system development using CI/CD tools such as Jenkins, Argo, etc.
- Fundamental knowledge of Cloud computing and DevSecOps.
- Development and deployment of automation solutions with Ansible, Terraform, etc.
- Proficiency in Linux (CentOS, Ubuntu) and Git.
- Experience with Bash scripting and Python.
- Ability to research and analyze scientific and technical documents.

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, C++, SQL, Java **Technologies:** AWS, Container, CI/CD