

# NGUYEN HOANG TRUNG TIN

## ARTIFICIAL INTELLIGENCE SOFTWARE ENGINEER

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### SUMMARY

Artificial Intelligence Software Engineer with a solid foundation in machine learning and deep learning, focusing on building practical AI applications. Experienced in turning data into intelligent solutions. Passionate about applying AI to solve real-world challenges in a scalable and efficient way.

### TECHNICAL SKILLS

- Programming: Python, HTML, CSS, JavaScript, TypeScript
- Data Processing, Analyzing, Visualizing: Pandas, Matplotlib
- ML/DL Libraries: Scikit-learn, Tensorflow, Keras, PyTorch
- Gen AI / LLM Libraries: LangChain, PandasAI, OpenAI API
- Computer Vision Libraries: YOLO, OpenCV, InsightFace
- Natural Language Processing: NLTK, spaCy, Word2Vec
- Database: MongoDB, PostgreSQL, MySQL, Milvus (Vector DB)
- BE: Flask, FastAPI, NestJS, NodeJS
- FE: NextJS, ReactJS, React Native
- Deployment: Docker, Nginx, VPS, Vercel
- Others: AWS, Git, Figma, Postman

### WORK EXPERIENCE

#### **Jumpstart Disruptive Innovations Pte. Ltd. - Tech JDI**

**April 2025 - Now**

Position: Artificial Intelligence Software Engineer

#### **V.N.P.T Ho Chi Minh City - Information & Technology Center**

**Aug 2023 - Nov 2023**

Position: Software Engineer Intern (Front End Developer)

### PROJECTS EXPERIENCE

#### **Artificial Intelligence Solution**

**(Tech JDI Project)**

- Role: AI Engineer & Backend Developer
- Summary: AI system for B2B with integrated solutions: data analysis assistant, face recognition, retirement planning, and real estate advisor. Includes full-stack frontend/backend, admin UI, and supports user interactions via Email, Telegram, and web.
- Technologies: LangChain, InsightFace, PandasAI, NextJS, NestJS, MongoDB, AWS S3, Milvus

#### **Ronaldo VS Messi Image Classification**

**(Personal Project)**

- Summary: Built a pipeline integrating Haarcascade (OpenCV) and SVM to detect and classify Ronaldo and Messi's faces. Deployed a web service, allowing users to upload images for real-time classification.
- URL: [deploy-url](#), [notebook-url](#), [frontend-repo](#), [backend-repo](#)
- Technologies-Algorithms Used: OpenCV, Scikit-learn, Wavelet Transformer, Cross-validation, Support Vector Machine, Random Forest, Logistic Regression, ReactJS, Flask, Docker, VPS

#### **Machine Learning-Based CSI Feedback With Variable Length in FDD Massive MIMO**

#### **Learning the CSI Denoising and Feedback Without Supervision**

**(Graduation Thesis)**

- Summary: Optimized CSI feedback in FDD Massive MIMO using PCA-KMeans and compared it with Autoencoder-based learning to reduce overhead while preserving accuracy.
- URL: [pca-kmeans-repo](#), [autoencoder-repo](#), [paper-1](#), [paper-2](#)
- Technologies-Algorithms Used: TensorFlow, Keras, PCA, K-means Clustering, AutoEncoder, Matplotlib

### EDUCATION

#### **University of Science, Viet Nam National University Ho Chi Minh City**

**Oct 2020 - Aug 2024**

Major: Telecommunications & Networks --- GPA: 7.6/10

#### **CS50 by PhD. David Jay Malan at HarvardX**

(CS50P) Programming with Python

#### **IBM Online Courses at EdX**

(DA0101EN) Analyzing Data with Python + (DV0101EN) Visualization Data with Python

#### **London App Brewery by Angela Yu**

**Dec 2023 - June 2024**

Courses: The Complete Python Pro Bootcamp + The Complete Web Development Bootcamp