

# TUNG DO THANH

Senior Python Developer | AI/ML Engineer | Full Stack Technologist

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Vietnam

## SUMMARY

With over 8 years in the tech industry, I bring deep expertise in Python development, modern machine learning workflows, and full-stack engineering. My core strength lies in building scalable, intelligent systems that seamlessly integrate AI/ML capabilities into real-world applications.

### Python & Frameworks:

Proficient in Python-based frameworks such as **FastAPI**, **Django**, and **Flask** for building secure and performant backend systems. Experienced with asynchronous programming, microservices architecture, and REST/GraphQL API design.

### Machine Learning & AI:

Hands-on experience in designing, training, and deploying machine learning models using **scikit-learn**, **TensorFlow**, **PyTorch**, and **XGBoost**. Skilled in end-to-end ML workflows—from data preprocessing and feature engineering to model evaluation and production deployment.

### Mathematical Foundations:

Strong grasp of core ML mathematics including **linear algebra**, **multivariable calculus**, **probability**, and **statistical learning theory**. I leverage these principles to build models that are not only accurate but interpretable and robust.

### ML Tooling & MLOps:

Proficient with **Pandas**, **NumPy**, **Matplotlib**, **MLflow**, **Weights & Biases**, **Docker**, and **Kubernetes** for experiment tracking, containerized deployments, and reproducible pipelines. Familiar with cloud ML stacks across AWS, Azure, and GCP.

### Full Stack Integration:

Skilled at embedding AI/ML models into full-stack applications—leveraging **React**, **Node.js**, and cloud-native services to deliver data-driven products with exceptional user experiences.

### Leadership & Strategy:

Led cross-functional teams on high-impact projects from inception to deployment. I'm passionate about mentoring developers, optimizing workflows, and delivering maintainable, scalable codebases that evolve with business needs.

I'm driven by a curiosity for innovation and a mission to solve real-world problems with code, math, and intelligent systems.

## EDUCATION

Master of Computer Science

Hanoi University of Science and Technology

2012 - 2017

## SKILLS

### Frameworks

FastAPI Django Flask Next.js

React ASP.NET Streamlit

Tailwind CSS

### Programming Languages

Python C# TypeScript

JavaScript C++

### AI/ML

scikit-learn TensorFlow PyTorch

XGBoost Keras NumPy

Matplotlib LLMs RAG

LangChain NLP fine-tune

Hugging Face Deep Learning

AI Agent Development

OpenAI Embeddings YOLO

Computer Vision

### Automation & API integration

Restful API GraphQL Selenium

Puppeteer Playwright N8N

### Database

MySQL MSSQL MongoDB

Azure SQL PostgreSQL

Cosmos DB Dynamic DB

## LANGUAGES

English  
Native



## EXPERIENCE

### Senior Python Developer

#### Self Employed

📅 12/2024 - Present 📍 Hanoi, Vietnam

Software Company

- Build backend APIs using **FastAPI**, **Django**, or **Flask**.
- Develop microservices for data platforms or cloud-native apps
- Integrate **AI/ML** models into web or mobile applications
- Create custom automation tools or web scrapers
- Set up **CI/CD pipelines**, containerization (**Docker**), orchestration (**K8s**)
- Deploy APIs and ML models on **AWS Lambda**, **Azure Functions**, or **GCP Cloud Run**

### LLM Engineer

#### Ciklum

📅 11/2023 - 10/2024 📍 London, UK

Software Company

- Worked as an LLM Engineer.
- Built a Resume Analyzation System using ChatGPT and Claude.
- Developed AI Code Generator using LLaMA-2-70b-hf
- Contributed to build an AI-Powered Interview Preparation Assistant.

### Computer Vision Engineer

#### Neurond AI

📅 08/2020 - 10/2023 📍 Da Nang, Vietnam

Software Company

- Built an autonomous part identification system using OpenCV, PaddleOCR and YOLO.
- Built a Lateral control and Obstacle Avoidance system in a self-driving car using OpenCV, DeepSort, DeepLab, Resnet and YOLO

### Cloud & Python Engineer

#### KAOPIZ SOFTWARE

📅 06/2019 - 09/2020 📍 Hanoi Vietnam

Software Company

- Implemented secure auth systems using **SSO**, **OAuth2.0**, **SAML**, **Microsoft Entra ID**, and **Azure AD B2C**.
- Built Python-based APIs with **Azure Functions**, **APIM**, **Azure SQL**, and integrated **Azure OpenAI & AI Search**.
- Developed CI/CD pipelines using **GitHub**, **Bitbucket**, and **Azure DevOps**; automated workflows with Python scripting.

### Python & Data Engineer

#### HBLAB JSC

📅 10/2017 - 05/2019 📍 Hanoi, Vietnam

Software Company

- Built data pipelines and ETL workflows using **Python**, **Pandas**, **SQLAlchemy**, and **Azure Data Factory**.
- Developed APIs with **FastAPI** and **Azure Functions** for data access and ML integration.
- Integrated **Azure OpenAI** and **AI Search** for intelligent data processing and summarization.
- Optimized SQL and Python code for scalable, production-ready data workflows.

## SKILLS

### Cloud Engineering

Azure Function

Azure VM

Azure Blob

Azure SQL

VNET

APIM

AWS S3

AWS Lambda