

Duc Tai Dinh

Thu Duc, HCMC | ductai.dt05@gmail.com | github.com/ductai05 | [linkedin.com/in/ductai05](https://www.linkedin.com/in/ductai05) | ductai05.is-a.dev

EDUCATION

University of Science, VNU-HCM <i>Bachelor of Science, Artificial Intelligence</i> <ul style="list-style-type: none">Cumulative GPA: 8.78/10.0 (3 semesters) Vu A Dinh Scholarship Local ScholarshipRelevant Coursework: Calculus, Linear Algebra, Discrete Math, Combinatorial Math, Statistics, Math for AI, Programming for AI, Data Structures and Algorithms, Computer Networking, Object-Oriented Programming, Databases	Thu Duc, HCMC Aug 2023 — May 2027
Bao Loc High School for Gifted <i>High School Diploma, Mathematics Specialization</i> <ul style="list-style-type: none">Cumulative GPA: 9.0/10.0 Six-Semester Incentive ScholarshipAward: First Prize in Mathematics - Provincial-level Excellent Students Contest Grade 12	Bao Loc, Lam Dong Aug 2020 — Jun 2023

PROJECTS

Researcher & Developer , Mathematics for AI (github.com/ductai05/Y2S2-Math4AI) <ul style="list-style-type: none">[Jupyter Notebook] Researched and implemented machine learning algorithms grounded in mathematical principles, including Regression, K-Means, PCA, Mean Shift, MLE, MAP, and Naive Bayes. Explained a foundational VLMs, CLIP.	Mar 2025 — now
Back-end Developer , Control Computer via Gmail (github.com/ductai05/socket) <ul style="list-style-type: none">[C++] Controlling a cluster of server computers in a LAN from a client machine, utilizing cURL and Winsock, with communication between the client and the server network facilitated through Gmail using IMAP, SMTP, and Sockets.	Nov 2024 — Dec 2024
UX/UI Designer, Front-end Developer , Maze Game (github.com/ductai05/Y1S2-MazeGame) <ul style="list-style-type: none">[Python] Maze Pathfinding Game, Implemented Using BFS for Maze Generation and A*, BFS, and DFS for Pathfinding.	Apr 2024 — May 2024

EXTRACURRICULAR ACTIVITIES

Top 30 Final Round of the 5th AI Challenge Ho Chi Minh City 2024 <ul style="list-style-type: none">Theme: “Event retrieval from visual data”. Team WATLERE achieved top 30.Researching, selecting, fine-tuning suitable AI models. Designing and building a data pipeline to handle data preprocessing, transformation, and feature engineering.	Jul 2024 — Dec 2024
Top 4 EVENTA Grand Challenge - ACM Multimedia 2025 <ul style="list-style-type: none">Track 1: Event-Enriched Image Retrieval and Captioning. Achieved top 2 in the public test and top 4 in the private test.Designing algorithms to retrieve and generate more descriptive and comprehensive image captions.	May 2025 — now

ACHIEVEMENTS & CERTIFICATIONS

Mathematics for Machine Learning Specialization , DeepLearning.AI	Mar 2024
Machine Learning Specialization , Stanford University & DeepLearning.AI	Feb 2024
VSTEP level 4, English B2 CEFR , Ho Chi Minh University of Social Sciences and Humanities (USSH)	Sep 2023
First Prize in Mathematics <ul style="list-style-type: none">Provincial-level Excellent Students Contest Grade 12, Lam Dong 2023Issued by Director of the Department of Education and Training of Lam Dong Province	Mar 2023
Academic Proficiency Test 2023 - VNUHCM <ul style="list-style-type: none">Score: 1012/1200, top 0.244%. Issued by Vietnam National University Ho Chi Minh City	Mar 2023

SKILLS

Programming Languages: Python, C/C++, R, Matlab, SQL
Technologies: Git, Github, FastAPI, Anaconda, CMake, Electron, Typst, LaTeX, NixOS, Streamlit
Research Interests: LLMs, VLMs, OCR, ASR, Object detection, CNN, ViT, Transformers, DINO, FAISS.
AI Libraries: Numpy, Pandas, TensorFlow, PyTorch, Keras, scikit-learn
Languages: Vietnamese (native), English (B2)