VUONG TUAN DUONG

 Dtongg03   Duong Vuong Tuan   Vuongtuanduong2003@gmail.com   +84-386628003

EDUCATION

- **East Asia University of Technology**
  B.Tech- Information Technology - GPA : 2.99

  Ha Noi
  Jan 2021 – Aug 2025

TECHNICAL SKILLS

- **Languages**: Python, SQL, Shell Scripting (Bash)

- **Web & Data Technologies**: HTML, CSS, MongoDB, MySQL, PostgreSQL

- **Relevant Coursework**: Data Structures & Algorithms, Operating Systems, Database Management Systems

- **Utilities & Frameworks**: Git, GitHub, Postman, REST API, FastAPI, Pytorch, Tensorflow, Django, MatplotlibDocker, Vercel

PROJECTS

- **ENGLISH AI (SvelteKit, TypeScript, Tailwind, Python, FastAPI, PostgreSQL, Redis, Docker)   Link** ⧉
  - Developed a **full-stack English learning platform** featuring **personalized learning roadmaps, interactive grammar lessons,** and **a smart vocabulary builder**, designed to streamline the language acquisition process for learners.
  - Engineered a **high-performance asynchronous backend** using **FastAP**I and **AsyncPG**, utilizing **Redis caching** to reduce API latency by **40%** and **Celery** for handling resource-intensive background tasks like roadmap generation.
  - Implemented an **AI-powered writing assistant** that evaluates user submissions with real-time scoring and feedback, leveraging **Ollama** for local LLM integration to ensure data privacy and cost-efficiency.

- **HRMS Microservice System (Python, Django, MySQL, Docker, Google Gemini AI):   Link** ⧉
  - Developed **a comprehensive Human Resource Management System** featuring **employee lifecycle management**, **automated payroll processing**, and **OKR/KPI performance tracking**, designed to streamline HR operations and enhance organizational efficiency.
  - Engineered a **scalable microservices architecture** using **Django REST Framework and Docker**, utilizing **Nginx** as a reverse proxy and load balancer to ensure **high availability and secure communication** between the Core and Task services
  - Implemented an **AI-powered HR assistant** that **automates employee support and query resolution**, **leveraging Google Gemini API** for **natural language processing** to **provide real-time**, context-aware responses to user inquiries.

- **ChatbotStockVN3 (Python, vnstock3, scikit-learn, NLP):   GitHub**
  - Engineered a **virtual stock assistant** capable of processing **Natural Language (NLP)** commands to query real-time stock prices and retrieve historical market data for Vietnamese companies.
  - Implemented **a predictive modeling pipeline** using **Linear Regression** and **scikit-learn** to forecast stock trends for the next 5 days, providing users with data-driven investment insights.
  - Leveraged the **vnstock3** library to fetch and process large datasets of financial metrics, visualizing trends to help users identify market movements effectively.

- **Handwritten Digit Recognition System (Python, OpenCV, Machine Learning)**:   **Github**
  - Developed an **image recognition system** to **classify handwritten digits with high precision**, utilizing **computer vision techniques** for **image preprocessing** (thresholding, contour detection)..
  - Implemented and trained **machine learning models** to recognize numerical inputs from raw image data, achieving robust performance on standard test datasets.
  - Built a processing pipeline that converts user-inputted images into normalized formats suitable for model inference, demonstrating proficiency in pattern recognition and data transformation.

CERTIFICATIONS

- **Google AI Essentials**
  Hands-on with Generative AI, Prompt Engineering, and responsible AI.

  Issued by Google
  June 2025 - Present

EXPERIENCE

- **Asilla Co., ltd**
  AI Engineer-Internship

  Jan 2025 – April 2025