

Huynh Dang Khoa (Mrs.)

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INTRODUCTION

I am driven by a strong desire to innovate and solve complex challenges in the technology sector. My foundation in project management, negotiation, and communication, combined with my rapid learning ability and proactive curiosity, allows me to approach problems with a data-driven mindset. I am eager to contribute to the fields of AI, Data Analytics, Data Science and Software Engineer, leveraging my programming and troubleshooting skills to make impactful advancements.

EDUCATION

University of Information Technology **2022 - 2026 (Expected)**

Bachelor of Computer Science and Bachelor of Software Engineer (Dual Degree)

- GPA: **8.19/10.0**
- One semesters of **excellent student scholarship**
- Good at courses: Machine Learning, DSA, OOP, Database Management, Applied Mathematics and Statistics,... and others. ([Transcript](#) for more information)

WORKING EXPERIENCE

Data Solutions Intern **March 2025 - Now**

OnPoint E-Commerce Vietnam

- Support the team in analyzing operational processes and collecting business requirements;
- Help identify areas for improvement and suggest automation ideas and build internal tools to enhance productivity of the company (using AI, VBA,...);
- Work with different teams (business, product, tech, operation, strategy,...) to understand workflows and challenges;
- Take part in testing new tools or process changes;
- Stay updated on tech trends (like LLMs, Computer Use, automation tools,..) and share useful ideas with the team.

Software Developer **March 2025 - Now**

Tensoract (Startup)

- Develop niche AI-powered products solving real-world problems (e.g., logistics, AI graphics).
- Key projects:
 - [Goihangchuan.vn](#) – optimize packaging via Computer Vision.
 - [Deligent](#) – AI-driven accessories design (text-to-image).
- Work in Agile teams, handle API integration, deployment, and prompt engineering.

SKILLS

- **AI Skills:** Proficient in **Machine Learning, Deep Learning, NLP, and Computer Vision**. Experienced in **Python** and **AI libraries** (e.g., scikit-learn, TensorFlow, Transformers), with familiarity in **Generative AI (GenAI)**. Skilled in **AI-driven process analysis, automation design, and prompt engineering** for LLMs (e.g., GPT). Capable of integrating **AI tools (OCR, chatbot, speech-to-text, etc.)** into business workflows and evaluating new AI technologies to enhance operational efficiency.
- **Data Analysis / Science Skills:** Strong in data cleaning, wrangling, and feature engineering using **Python (pandas, NumPy), SQL, and Excel (including VBA)**. Proficient in **data visualization** with **Power BI, Tableau, Matplotlib, and Seaborn**. Skilled in **statistical analysis, A/B testing, predictive modeling, and sales forecasting**. Experienced in writing complex SQL queries, building **interactive dashboards**, and extracting insights from **large-scale eCommerce data** (orders, SKUs, customers, campaigns). Familiar with **Big Data tools** (Hadoop, Spark) and deploying machine learning models using **Scikit-learn** and **TensorFlow**.
- **Software Engineer Skills:** Proficient in **C++, Java, and JavaScript**, with strong experience building **AI-powered web applications and recommendation systems**. Skilled in developing full-stack solutions using **Python, React/Next.js, and Node.js**, integrating both backend APIs and dynamic frontends. Experienced in working with **SQL (MySQL, PostgreSQL, DBeaver)** and **NoSQL databases (MongoDB, Firebase Firestore)**, with a focus on **data modeling, performance tuning**, and real-time synchronization. Familiar with **Docker, Redis, Elasticsearch, and Firebase** for scalable infrastructure, caching, search indexing, and app deployment. Advanced skills in **building and integrating recommendation algorithms** (collaborative filtering, matrix factorization, hybrid models), and working with **AI frameworks** such as **PyTorch, TensorFlow, HuggingFace Transformers, LangChain**, and the **OpenAI API**. Well-versed in **RESTful API** development, **CI/CD workflows**, version control with **Git**, and modern cloud-based deployment strategies. Comfortable working in **Agile/Scrum** teams, with a strong foundation in **debugging, performance optimization, and cross-functional collaboration**. Especially experienced in delivering **scalable, content-driven platforms** for media domains (film streaming, music discovery, etc.).
- **Business & Project Management Knowledge:** Strong understanding of **Scrum and Agile methodologies**, with practical experience across the **full product lifecycle**—from requirement gathering and MVP definition to release, feedback, and iteration. Proficient in **product performance analytics, customer segmentation** (e.g., RFM), **conversion funnel analysis**, and evaluating **marketing ROI** through key metrics such as **ROAS, CAC, and LTV**. Capable of integrating and analyzing data from **multi-channel platforms** including **Google Analytics, TikTok Ads, Shopee/Lazada reports, and CRM/CDP systems** (e.g., Insider, MoEngage). Experienced in building **automated dashboards** for business intelligence, providing stakeholders with real-time visibility and actionable insights to support strategic decision-making.
- **Another Skills:** **RPA coding, Constraint Programming, Build crawlers** with Python (Requests, BeautifulSoup, Selenium, Playwright); handle CAPTCHA & anti-bot; extract data from eCommerce/news/social platforms; export to CSV/Excel/JSON; integrate with MongoDB/SQL; used for AI training, trend & product analysis.

Language skills:

- **English:** Fluent (Equivalent to IELTS 6.0)
- **Chinese:** Fluent (Equivalent to HSK4)

AWARDS & HONOURS

2nd Runner - up of Data Analysis at Heading for the Future Vietnam **Jul 2024**

[Link of Top 50](#), [Link of Top 12](#), [Link of 2nd Runner - up Case-solving](#)

- Proficient in analyzing market research and targeting customers.
- Managed sales activities, operations, and enhanced enterprise platform development solutions.

Top 5 of Heineken Hackathon (E-commerce field at Heading for the Future Vietnam) **Jul 2024**

[Link to our work](#)

Top 4 of FinTechNovation Credentials

Jul 2024

[Link to our work](#), [Link of Top 4](#)

- National FinTech Innovation Competition from UEH University x UOB x Singapore Business Federation (SBF)

PROJECTS

Classify Horses and Cows | EfficientNetB7 DL Network, Python, Jupyter Notebook **Jun 2024**

[Link to my Independent Project](#)

Key Achievements:

- Built and deployed an EfficientNetB7 model to classify cattle and horses with $\approx 97\%$ accuracy.
- Optimized data preprocessing, training, and evaluation for performance.

Reinforcement learning for flappy bird | DQN, Double DQN, Python, Jupyter Notebook **Jun 2024**

[Link to our work](#) (Group of 3)

Key Achievements:

- Implemented Q-Learning and Double Q-Learning to train an AI agent for Flappy Bird in OpenAI Gym.
- Designed reward structures, evaluated performance, and documented findings.
- Strengthened collaboration and technical communication skills.

Video Retrieval from Text | CLIP, FAISS, Python, Streamlit

Nov 2024

[Link to our work](#) (Group of 4)

Key Achievements:

- Successfully implemented a video retrieval system using CLIP and FAISS, enabling efficient search and retrieval based on textual input.
- Optimized the embedding generation and indexing process for fast and accurate video retrieval.
- Enhanced user experience by integrating the system with a Python-based interface for seamless interaction.

Mental Health Chatbot | Transformers, Langchain, Python, Streamlit

Nov 2024

[Link to our work](#) (Group of 4)

Key Achievements:

- Developed a mental health chatbot using Transformers and Langchain, enabling intelligent and empathetic conversations.
- Integrated advanced NLP capabilities for contextual understanding and sentiment analysis.
- Built a user-friendly interface with Streamlit for seamless interaction.

Research of CEM-RL | Reinforcement Learning, CEM, Python

Nov 2024

[Link to my Independent Project](#)

Key Achievements:

- Developed and tested CEM-RL, a hybrid approach combining evolutionary and gradient-based methods for policy search, achieving faster convergence and improved robustness.
- Evaluated performance in simulated environments and documented insights for optimization strategies.

EXTRACURRICULAR ACTIVITIES

Participated in organizing international events at SECC

- Collaborated in a team of over 300 members.
- Directly communicated with international exhibition visitors in multiple languages.

Secretary of the Faculty Youth Union at university

- Actively participated in various social activities, fostering teamwork and communication skills.