

NGUYEN HAI DANG

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📍 Tan Binh District, Ho Chi Minh City

EDUCATION

Vietnam Aviation Academy

Aug 2022 - 2025

Bachelor of Information Technology

EXPERIENCE

MOONSHOOT Co., Ltd

Apr 2025 - May 2025

Software Developer

Worked on an AI-powered platform offering product suggestions, chat features, and a virtual skincare assistant that analyzes skin conditions and recommends suitable products. Key highlights:

Backend Development:

- Designed APIs for modules like shop, conversation, and login using FastAPI.
 - Implemented secure authentication methods, including Magic Link (email-based) and OTP.
 - Handled Alembic migrations, resolving database conflicts and ensuring schema synchronization.
 - Migrated FastAPI database layer from synchronous to asynchronous sessions for improved performance and compatibility with async architecture.
- Improved system reliability by optimizing migration logic and ensuring seamless database updates.

Data Crawler System:

- Built scalable web scrapers for vendors such as Hasaki and Guardian using Selenium and BeautifulSoup.
 - Refactored crawler logic into modular components and normalized data across product, ingredient, and spec tables.
 - Developed dynamic XPath configuration files for handling frequent website structure changes.
- Enhanced crawler adaptability and reduced maintenance overhead by implementing flexible configuration systems.

AI Integration:

- Integrated OpenRouter into chatbot backend for AI-powered conversations.
 - Built an image analysis service to process image-based user input.
 - Connected Meilisearch to the server to provide semantic product search and AI tool access.
- Demonstrated ability to integrate cutting-edge AI tools into real-world applications efficiently.

Frontend Development (Vue.js):

- Optimized HTML/CSS structure with semantic tags and nesting for readability.
 - Improved UI by adding interactive product navigation buttons and image upload functionality.
- Applied clean code principles to boost maintainability and user experience.

Collaboration & Workflow:

- Operated in a Scrum-based team, tracked tasks with Jira, and collaborated effectively with cross-functional teams.
- Adapted quickly to Agile workflows and contributed to cross-functional collaboration under tight deadlines.

AITSOFT Co., Ltd

Jan 2025 - Apr 2025

Trading Bot Developer Intern

- Developed automated trading strategies using Freqtrade and Python.
- Used Pandas to process historical candlestick data for signal generation and backtesting.
- Implemented multiple indicators (e.g., EMA, RSI) and configured parameter sets for performance tuning.

- Collaborated closely with traders and business analysts to develop and refine trading bots, ensuring accurate implementation of trading logic and strategies.
- Gained hands-on experience in financial data processing and implementing trading strategies using Python and Pandas.

PROJECTS

AI Snake Game – Reinforcement Learning (PyTorch):	Apr 2024 – Jun 2024
<ul style="list-style-type: none">• Built a Snake game integrated with a Deep Q-learning agent for autonomous control.• Visualized training performance in real-time using Matplotlib, including reward trends and score tracking.• Implemented adjustable game speed to observe agent behavior during different training phases.• Used PyTorch for model implementation and Pygame for game interface and interaction.• GitHub: https://github.com/dangnguyen-vau/SnakeGameAI	

SKILLS

- Programming Languages:** Python, JavaScript
- Backend:** FastAPI, MySQL, SQLite, SQLAlchemy, Alembic, MongoDB
- Frontend:** Vue.js, HTML, CSS
- Data Tools:** Pandas, Selenium, BeautifulSoup
- AI & Search Tools:** PyTorch, Meilisearch, OpenRouter
- Operating Systems:** Linux
- Version Control:** Git
- Project Management:** Jira, Scrum