

# Trinh Quang Hien

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I am a third-year Data Science student with experience as a coding instructor and developer intern, seeking opportunities to apply my analytical thinking and expertise in data analytics and big data. With a diligent, detail-oriented mindset and eagerness to learn, I extract valuable insights from data to support strategic business decisions and optimize operations.

## PROJECTS

### TopCV Job Market ETL Pipeline | Python, Requests/BeautifulSoup, PostgreSQL, Airflow, Docker ↗

- Built a daily scraper that collects ~50 new TopCV job postings for data/analytics roles.
- Cleaned and standardized salary ranges and location fields before loading to the database.
- Implemented an Airflow ETL that deduplicates postings and inserts only new records into PostgreSQL for further analysis.

### Real Estate Price Prediction | Python, ML (Scikit-learn) ↗

- Cleaned and explored 414 housing records with 7 key features (age, distance to MRT, stores, latitude/longitude, price).
- Built and trained univariate and multivariate regression models in Scikit-learn, reducing RMSE from 11.45 to 8.89.
- Evaluated and visualized model performance using MAE/MSE/RMSE and predicted vs. actual prices.

### Customer Shopping Behavior Analysis | Python, SQL Server, Power BI ↗

- Performed data cleaning and preparation on 504 shopping-mall transactions (demographics, categories, spending, dates) using Python and Pandas.
- Designed and executed SQL Server queries to analyze revenue by customer profile, product category, payment method, and mall.
- Developed an interactive Power BI dashboard with filters (age group, category, mall, payment method, gender) to visualize customer shopping patterns.

## WORK EXPERIENCE

### Software Developer Intern

Oct 2025 - Nov 2025

#### ACT4 Trading and Service

Vietnam

- Developed web forms with full CRUD functionality for internal modules, improving data validation and storage efficiency by 30%.
- Built approval workflows based on business rules from senior members and users, enhancing daily internal process efficiency by 25%.
- Collaborated with teammates and testers to clarify requirements, resolve bugs, and prepare features for deployment, reducing deployment time by 20%.

### Python Teaching Assistant

Jul 2025 - Sep 2025

#### TEKY HOLDINGS

Vietnam

- Instructed small groups of 3 to 4 students (ages 7 to 12) to build simple games using the Codekitten platform and basic Python, receiving 90% positive feedback from parents.
- Guided 8+ students to debug, run, and complete at least one game project each, helping them work more independently.
- Presented core coding concepts (sequences, conditions, loops) through step-by-step game tutorials for two small groups (6–8 students), helping over 90% of them understand and apply these concepts in practice.

## EDUCATION

### Engineering Degree in Data Science

Jan 2023 - Jan 2028

#### Industrial University of Ho Chi Minh City (IUH)

GPA: 3.5/4.0

- Awarded 100% and 70% tuition scholarships for GPAs of 3.7/4.0 and 3.5/4.0.

## SKILLS

**Databases:** MS SQL Server, PostgreSQL

**Data & BI Tools:** Power BI, Excel (Pivot Table, Power Query, VLOOKUP, Conditional Formatting)

**Data Engineering & Development:** Apache Airflow, Docker, Web Scraping (Requests, BeautifulSoup, Selenium)

**Programming Languages:** Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn)

**Soft Skills:** Logical thinking, Problem-solving, Analytical skills, Proactive attitude, High sense of responsibility

## CERTIFICATIONS

### TOEIC 775

Jul 2025

### Microsoft Office Specialist Word & Excel

Jan 2023

## LANGUAGES

**English** (Native proficiency)