

# Ho Do Minh Quan

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## PERSONAL PROJECTS

### Discord AI Teaching Assistant - <https://github.com/nauqh/ti>

**Libraries:** OpenAI, Discord API, GitHub API

- Developed an AI-powered teaching assistant for Coderschool's Discord forums, integrating OpenAI GPT models with Discord's interactive features for intelligent, context-aware responses.
  - Implemented thread-based conversations, dynamic staff tagging across servers, and a real-time feedback system to enhance learner engagement. The bot has been actively supporting learners from 3 major courses with 100% positive feedback.
- Built an advanced code and visual analysis engine to streamline debugging and performance optimization.
  - Integrated GitHub API to automatically extract, analyze, and provide feedback on code submissions in multiple programming languages.
  - Enabled image-based debugging, detecting visualization errors in plots and offering step-by-step solutions.
- Implemented a knowledge retrieval system to provide personalized educational support.
  - Delivered curated learning materials by performing real-time searches for YouTube content and local documents based on user queries.
  - Provided detailed explanations, code examples, and best practices to improve learning outcomes. The assistant successfully resolves 90% of forum threads each month, significantly reducing the workload for the teaching staff.

### Job Board Automation - <https://github.com/nauqh/jobscraper>

**Libraries:** Langchain, BeautifulSoup, Pydantic

- Developed an automated job scraping and filtering platform that extracts job listings from multiple sources and evaluates their relevance using AI model.
  - Built a multi-platform scraping engine that collects job postings from LinkedIn, TopCV, and ITviec, extracting key details such as job titles, descriptions, and requirements.
  - Designed an AI-driven job matching system that leverages OpenAI models to assess job suitability based on candidate profiles, assigning relevancy scores and providing explanations for each classification.
  - Integrated cron job scheduling to automate the entire pipeline, ensuring weekly job updates with minimal manual intervention. The system successfully gathers 100 job postings per week across three Discord servers.

## TECHNICAL EXPERIENCE

### CoderSchool – Automation Engineer / Teaching Associate; Ho Chi Minh, Viet Nam

November 2023 – Present

- Provide comprehensive knowledge across multiple domains in data science and computer science, guiding learners towards a deeper understanding of the field and helping them choose the right career path. Successfully supported 20 learners to graduate with high results and receive immediate job offers.
- Designed and implemented data-driven solutions to enhance educational experiences. This involved:
  - Developing and maintaining a new exam platform for data science courses that improves content management, usability, and integrates an advanced auto-grading system for efficient assessments. This system automatically grades exams and generates reports, reducing TA workload by 80%.
  - Building an automated job board that curates personalized opportunities on a weekly basis for learners from different courses through Discord.
  - Developing an AI assistant to enhance learner support by answering questions on forum posts and facilitating engagement in Coderschool's question center.

### Google Developer Student Club – Operations Officer; Ho Chi Minh, Viet Nam - Melbourne, AU

June 2020 – Present

- Organized technical events and workshops on Google technology for club members and the local community.
- Collaboration with cross-functional teams to deliver highly engaging and informative events.
- Utilized extensive networking skills and industry connections to invite relevant guest speakers, resulting in increased attendance and engagement throughout.

## EDUCATION

### Monash University | Master of Data Science; Melbourne, Australia

July 2024 - Present

Specialisation: Applied Data Analysis | GPA: High Distinction

### Monash University | Bachelor of Computer Science; Melbourne, Australia

March 2021 - June 2024

Specialisation: Data Science & Software Development | GPA: High Distinction

## SKILLS & INTERESTS

**Languages:** Python, Typescript, SQL, R, HTML/CSS

**Data Technologies:** Pandas, Numpy, Plotly, Scikit-learn, Langchain, Pytorch, Tableau, Airflow

**Software Frameworks and Tools:** React, Nextjs, Tailwind, Shadcn UI, FastAPI, Git, Docker, AWS