

Quang Hung Nguyen

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EXPERIENCE

AI Engineer Intern

June 2026 - August 2026

Tekly Studio

USA

- Built an quantitative trading system that collected, cleaned, and engineered 5+ years of historical market data across 1,000+ alternative assets with 12 technical, statistical, and volatility-based features for machine learning research
- Implemented a backtesting engine with validation, transaction costs, and risk management rules, reducing look-ahead bias and producing reproducible performance metrics using customized internal Python framework

Undergraduate Course Assistant

September 2024 - May 2026

University of Massachusetts Amherst

Amherst, MA

- Managed course logistics for 200+ students in advanced CS courses (Search Engines, Information Retrieval, Discrete Math), running office sessions for students to enhance understanding on A* Algorithm, RAG, PageRank, LLM fundamentals
- Designed code skeletons and test cases for students' search engine assignments (indexing, ranking, text processing).
- Contributed to a Retrieval Augmented Generation (RAG) pipeline combining IR (inverted index, TF-IDF) with LLMs (Qwen, Llama) via Hugging Face, improving retrieval precision by 53% for specific questions about teaching material.

Full-stack Web Developer Intern

June 2025 - August 2025

Van Phuoc Medic

Ho Chi Minh city, VN

- Designed and developed a patient portal using HTML/CSS, JavaScript, SQL, Node.js, deployed on AWS EC2/S3/Route53
- Optimized SQL database schemas and queries to manage patient inquiries, appointment requests, and website content, improving data retrieval performance and backend reliability.
- Containerized with Docker and utilized Jenkins to setup a CI/CD pipeline, reducing deploy time by 83%.

Software Developer Intern

June 2024 - August 2024

FPT Software

Ho Chi Minh city, VN

- Collaborated with a 15+ member team to develop and maintain company's internal software using C#, XML and .NET
- Designed architecture diagrams for 12 features across 3 systems that accomodate 10000 users combined
- Shipped 4 high concurrency features using WPF Data Templates, Async/Await, and WCF Services
- Spearheaded a Python program that parsed and cross checked 50MB+ metadata records with 20+ datatype from existing application systems, **reducing QA manual debugging time from 55 minutes to 4 minutes on average.**

PROJECTS

Web Scraping Trading Bot | Python, Selenium, BeautifulSoup, Scrapy, Pandas, PostgreSQL, JWT, Scikit-learn 2024-2025

- Scraped 1000 news & search results/day** by orchestrating a headless Chrome pipeline with Selenium Grid, rotating proxies, and BeautifulSoup/Scrapy parsers, capturing 87% of relevant VNIndex headlines in near real time.
- Maintained zero authentication failures **across 3000 API calls** by using JWT to refreshes tokens and signs trade orders.

ClosetIQ | HTML/CSS, JavaScript, Node.js, Express.js, Passport.js, SQLite, IndexedDB 2024

- Developed a web application that keep tracks of daily outfits with a team of 5 people using agile methods
- Used statistics and supervised Artificial Intelligence model to suggest personalized outfits with 90% accuracy.
- Implemented REST API for CRUD operations on logging and suggesting outfits, with authentication using Passport.js.

CERTIFICATES/ AWARDS

AWS Certified Cloud Practitioner | Amazon Web Services (AWS) 2025

Docker Foundations Professional Certificate | LinkedIn Learning Certificate of Completion 2025

Collegiate Chess League Fall 2023- Division 11 | 1st Place 2023

EDUCATION

University of Massachusetts Amherst

Amherst, MA, USA

Master of Science in Computer Science

Expected 2027

Bachelor of Science in Computer Science and Mathematics (GPA: 3.8/4.0)

2022 - 2026

Coursework: Data Structures, Distributed Systems, Machine Learning, Search Engines, Databases, Algorithm Design

SKILLS

Languages: Python, JavaScript, TypeScript, C, C++, C#, SQL, Java, HTML, CSS

Frameworks/libraries: Node.js, Express, React, jQuery, Socket.io, .NET, XML, Bootstrap, pandas, NumPy, PyTorch, Flask

Developer Tools: Git, Docker, AWS, VS Code, OpenAI, Jira, Confluence, Postman, Heroku, Jenkins, Google Colab, Claude Code