

# Minh (Tommy) Nguyen

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*Experienced in AI/ML research, software development, and building full-stack applications. Seeking a full-time Software Engineering internship for Summer 2025 with a focus on the following area(s): Backend Development, Full-stack Development, Data Engineering, AI/ML.*

## EDUCATION

### Villanova University

Expected Dec 2025

*Bachelor of Science in Computer Science, Business minor, Honors Degree*

**GPA: 3.96/4.00**

- **Awards:** Tapia 2024 Conference VU Scholar, Veritas Scholar (\$64,000), Connelly-Delouvrier Scholarship (\$30,000), AI-JAM US Silicon Valley (Gold medal), Presidential Scholar Alternate (top 2 CS student)
- **Coursework** (\*current): \*Large Language Model, \*Computer Vision, \*Database Systems, Operating Systems, Software Engineering, Computer Structure, Data Science, Programming Languages, Analysis of Algorithms, Linear Algebra, Discrete Structures, Data Structures and Algorithms
- **Involvement** (Villanova University): Badminton Club President, Vietnamese Student Association Vice President, Special Olympics Committee Member, Competitive Programming Team, Honors Student Advisory Board

## EXPERIENCE

### Software Engineer Intern (Full-time)

May 2024 – Aug 2024

*Olli Technology*

*HCM City, Vietnam*

- Co-developed the AI voicebot backend with 2 developers using LangGraph and GPT API; developed its prototype using Flask, React, and gRPC and helped secure a partnership with the Malaysian Minister of Education.
- Developed an AI-powered image suggestion feature for a marketing assistant app, leveraging Unsplash API (free image library), DALL-E API, GPT API, and gRPC, resulting in a 25% increase in user engagement.

### AI Research Assistant (Part-time)

May 2023 – Present

*Villanova University*

*Villanova, PA*

- Fine-tuned Large Language Models (ByT5, NLLB, DeltaLM) for Igbo to English translation using high-quality, benchmark datasets of 700,000 aligned sentence pairs, achieving a 43% BLEU-score improvement.
- Set to publish datasets of 100,000 aligned sentences in two underrepresented Nigerian languages, created through web scraping and native speaker collaboration, at ICWSM 2025 and COLING 2025 conference.

### Undergraduate Data Research Assistant (Part-time)

Jan 2023 – April 2023

*Villanova University*

*Villanova, PA*

- Refined the text-generation of the AMR system, a Natural Language Processing tool, to sound more human-like
- Automated testing over large datasets and analyzed 80,000 sentences using Python, proposed mathematical expression learning to improve the system

## PROJECTS

### RAG Chatbot | Python, LangChain, ChromaDB, Flask, React, Docker, AWS | [link](#)

May 2024 – Present

- Developed a chatbot utilizing ChromaDB to store PDF files as embeddings, leveraged k-similarity search to find relevant data, incorporated GPT API to answer user questions.
- Designed multiple chat sessions simulating GPT-4 interactions, providing a responsive user experience.

### VU Stock Exchange Platform | Python, Flask, React, MySQL | [link](#)

Jan 2024 – May 2024

- Integrated real-time stock data retrieval and processing from external APIs; developed interactive price trend graphs using Highcharts and JavaScript, and an admin interface for portfolio management and custom stock creation
- Co-designed a multi-table MySQL architecture database to support user info, stock prices, and credit/debit card transactions; implemented SHA-256 for enhanced security, and optimized for handling concurrent user access.

## TECHNICAL SKILLS

**Languages:**(Proficient) Python; (Intermediate) JavaScript, TypeScript, MySQL, R, HTML/CSS; (Beginner) Java, C++

**Frameworks:** React.js, Vue.js, Flask, gRPC, REST API

**Developer Tools:** Git, Github, Docker, AWS, VS Code, Google Colab, RStudio, Jupyter Notebook, Eclipse

**Libraries:** PyTorch, Scikit-learn, LangGraph, LangChain, Pandas, Numpy, BeautifulSoup, Transformer, Concurrent