

# Minh (Tommy) Nguyen

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## EDUCATION

### Villanova University

Expected May 2026

GPA: 3.96/4.00

- Bachelor of Science in Computer Science, Business minor, Honors Degree
- Awards:** Tapia 2024 Conference VU Scholar, Veritas Scholar (\$64,000), Connelly-Delouvrier Scholarship (\$30,000), AI-JAM US Silicon Valley (Gold medal)
  - Coursework** (\*current): \*Database Systems, \*Applied Machine Learning, \*Large Language Model, Operating Systems, Software Engineering, Computer Structure, Data Science, Analysis of Algorithms, Linear Algebra, Discrete Mathematics, 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

### Data Scientist Intern (Part-time)

Sep 2024 – Present

Product Manager Accelerator - Boston, MA

Remote

- Extracted and processed data from 100+ business profiles using **Google Places API** and **Pandas**, creating a vectorized database with key metrics (e.g., ratings, location, community data) for efficient analysis.
- Utilized **k-similarity algorithms** and **Llama 2** to develop a recommendation system, boosting the online visibility of BIPOC-owned small businesses by providing tailored insights.

### 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 Malaysia's 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 translation tasks using benchmark datasets of 700,000 sentences and leveraging **Transformers**, **Tensorflow**, and **nltk** libraries, improving BLEU-score by 43%.
- Set to publish datasets of 100,000 aligned sentences in two underrepresented Nigerian languages, created through web scraping, data preprocessing, and native speaker annotations, at ICWSM 2025 and COLING 2025 conference.

## PROJECTS

### Campus Hero App | OpenCV, Swift Mobile, Docker, AWS, Python, Flask, ReactJS | [link](#)

May 2024 – Present

- Developed and deployed a real-time incident alert system backend and a mental health RAG chatbot using **Python/Flask**, **Claude 3 Haiku**, and **AWS**.
- Built a Public Safety Dashboard using **ReactJS**, allowing real-time monitoring of student safety on campus.

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

May 2024 – Present

- Developed a chatbot utilizing **ChromaDB** to store PDF files as **vector embeddings**, leveraged **k-similarity** search to find relevant data, incorporated **GPT 3.5 Turbo** to answer user questions.
- Designed multi-chat sessions simulating ChatGPT using **ReactJS**, 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 using **REST APIs**; developed interactive stock price graphs using **Highcharts** and **JavaScript**, and an admin interface for portfolio management and 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:** Python, R, SQL, MySQL, JavaScript, TypeScript, HTML/CSS, Java, C++

**Frameworks:** ReactJS, Vue.js, Flask, Firebase, REST API, gRPC

**Developer Tools:** Docker, AWS, SQL Developer, Git, Github, Agile, Jira, VS Code, Google Colab, RStudio

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