

Minh (Tommy) Nguyen

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EDUCATION

Villanova University <i>Bachelor of Science in Computer Science, Business Minor</i>	Expected Dec 2025 GPA: 3.96/4.00
<ul style="list-style-type: none">Awards: Honors Program, Dean's List, 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, *Machine Learning, *Large Language Model, Operating Systems, Software Engineering, Data Science, Analysis of Algorithms, Linear Algebra, Discrete Mathematics, Data Structures and Algorithms, Statistical MethodsInvolvement (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) <i>Product Manager Accelerator - Remote</i>	Sep 2024 – Present <i>Boston, MA</i>
<ul style="list-style-type: none">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 analysisUtilized k-similarity, one-hot encoding, ranking systems, 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) <i>Olli Technology</i>	May 2024 – Aug 2024 <i>HCM City, Vietnam</i>
<ul style="list-style-type: none">Co-developed the AI voicebot backend with 2 developers using LangGraph and GPT API; built its prototype using Flask, React, and gRPC and helped secure a partnership with Malaysia's Minister of EducationDeveloped an AI-powered image suggestion feature for a marketing assistant app, leveraging Unsplash API (free image library), DALL-E API, GPT API, and gRPC, achieving in a 25% increase in user engagement	
NLP Research Assistant (Part-time) <i>Villanova Center for Research and Fellowships</i>	May 2023 – Present <i>Villanova, PA</i>
<ul style="list-style-type: none">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 <i>Python, Flask, ReactJS, Docker, AWS</i> link	May 2024 – Present
<ul style="list-style-type: none">Developed and deployed a real-time incident alert system backend and a mental health RAG chatbot using Python/Flask, Claude 3 Haiku, and AWSBuilt a Public Safety Dashboard using ReactJS, allowing real-time monitoring of student safety on campus	
RAG Chatbot <i>LangChain, ChromaDB, Docker, AWS, Python, Flask, ReactJS</i> link	May 2024 – Present
<ul style="list-style-type: none">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 questionsDesigned multi-chat sessions simulating ChatGPT using ReactJS, providing a responsive user experience	
VU Stock Exchange Platform <i>Python, Flask, React, JavaScript, SQL</i> link	Jan 2024 – May 2024
<ul style="list-style-type: none">Integrated real-time stock data retrieval and processing using REST APIs; developed interactive stock price graphs using Highcharts, and an admin interface for portfolio management and stock creationCollaborated to design a multi-table MySQL 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, JavaScript, TypeScript, Java, C/C++, HTML/CSS

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

Developer Tools: Docker, AWS, Git, GitHub, MySQL, SQL Developer, Agile, Jira, VS Code, Google Colab, RStudio

Libraries: Pandas, Numpy, BeautifulSoup, TensorFlow, Transformer, Scikit-learn, LangGraph, LangChain, OpenCV