Minh (Tommy) Nguyen

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EDUCATION

Villanova University — Expected Dec 2025
Bachelor of Science in Computer Science - Honors Degree (top 9%), Business Minor — *GPA: 3.97/4.00*

- **Awards & Research**: Tapia 2024 Conference VU Scholarship (100%), Connelly-Delouvrier Scholarship (100%), AI-JAM US Silicon Valley (Gold medal) | Paper on **LLMs Linguistic Diversity** published by **NAACL 2025**.
- **Coursework**: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Analysis of Algorithms, Database Systems, Machine Learning, Data Science, Linear Algebra, Discrete Mathematics
- **Involvement**: Competitive Programming Team, Honors Student Advisory Board, Special Olympics Committee Member, Vietnamese Student Association Vice President, Badminton Club President

EXPERIENCE

Software Engineer Intern — May 2025 – Present
SoFi Technologies — *San Francisco, CA*

- Enhanced an internal production tool using **Spring Boot**, **ReactJS**, and **PostgreSQL** to automate the debt sale process, eliminating 70+ manual merge requests and saving engineers 100+ hours annually
- Built an AI-powered suggestion tool using **GraphQL** and **SourceGraph** to retrieves similar past tickets, and recommends SQL commands for Data Change Request incidents, enhancing on-call engineer productivity by 35%

NLP Research Assistant — May 2023 – May 2025
Computing Science Department & Center for Research and Fellowships — *Villanova, PA*

- Web-scraped and preprocessed 2,000,000 sentences using BeautifulSoup, Concurrent, Regex, Pandas, and Numpy.
- Fine-tuned large language models (ByT5, NLLB, DeltaLM) for translation tasks using benchmark datasets of 700,000 sentences and leveraging **Transformers**, **Tensorflow**, and **nltk**, improving BLEU-score by 43%

Data Scientist Intern — Sep 2024 – Dec 2024
Product Manager Accelerator — *Boston, MA*

- Created a vectorized database with key metrics (ratings, location, community data) for efficient analysis by extracting and processing data from 100+ business profiles using **Google Places API** and **Pandas**
- Developed a recommendation system leveraging customized data, **vector similarity**, **one-hot encoding**, and **ranking algorithms** to increase the online visibility of BIPOC-owned small businesses by 30%

Software Engineer Intern — May 2024 – Aug 2024
Olli Technology — *HCM City, Vietnam*

- Co-developed the personalized voicebot with 2 developers using multi-agent workflows from **LangGraph**; built its prototype with **Flask**, **React**, and **gRPC**; helped secure a partnership with Malaysia's Minister of Education
- Developed an AI-powered image suggestion feature for a marketing assistant app, integrating **Unsplash API**, **DALL-E API**, **GPT API**, and **gRPC**, achieving a 25% increase in user engagement

PROJECTS

SAT Test-Taking Platform | *Spring Boot, React, Vite, Firebase, Digital Ocean* | *link* — Feb 2025 – Present

- Built and deployed a full-stack SAT practice platform with 2 FAANG engineers, supporting 500+ student users
- Implemented timed test-taking, score evaluation and reporting, and personalized AI-powered explanations; migrated database to Firestore and deployed entire infrastructure across Firebase, AWS, and DigitalOcean

VU Stock Exchange Platform | *Python, Flask, React, JavaScript, SQL* | *link* — Jan 2024 – May 2024

- Developed real-time stock data retrieval with **REST APIs**, interactive price visualizations using **Highcharts**, and an admin interface for portfolio management
- Designed **MySQL** database for user profiles, stock prices, and transactions; optimized for concurrent user access

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, Kotlin, C/C++, HTML/CSS, SQL, PostgreSQL, R
Frameworks: ReactJS, VueJS, Flask, Spring Boot, REST API, gRPC
Developer Tools: Git, Gitlab, Docker, AWS, DigitalOcean, Firebase, MongoDB, MySQL, GraphQL, VS Code, IntelliJ
Libraries: Pandas, NumPy, BeautifulSoup, TensorFlow, Transformers, Scikit-learn, LangGraph, LangChain, OpenCV