# Minh (Tommy) Nguyen

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*Experienced in full-stack development, web-app development, backend engineering, and recommendation systems*

## EDUCATION

**Villanova University**                                                                              Expected Dec 2025
*Bachelor of Science in Computer Science - Honors Degree, Business Minor*                    ***GPA****: 3.97/4.00*
- **Awards**: Honors Program (top 10%), Tapia 2024 Conference VU Scholar, Veritas Scholar, Connelly-Delouvrier Scholarship, AI-JAM US Silicon Valley (Gold medal)
- **Coursework**: Operating Systems, Data Structures and Algorithms, Object-Oriented Programming, Analysis of Algorithms, Database Systems, Linear Algebra, Discrete Mathematics, Statistical Methods, Data Science, Machine Learning, Large Language Models
- **Research**: Published a paper on improving LLMs Linguistic Diversity at LoResMT workshop, NAACL 2025.
- **Involvement** (Villanova University): 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 internal production tool using **Spring Boot**, **ReactJS**, and **PostgreSQL** to automate the debt sale process, eliminating 60+ manual merge requests and saving engineers 100+ hours annually
- Built an AI-powered suggestion tool that extracts keywords, retrieves similar past tickets, and recommends SQL commands given a new Data Change Request incident, enhancing on-call engineer productivity by 30%

**Data Scientist Intern**                                                                          Sep 2024 – Dec 2024
*Product Manager Accelerator*                                                                            *Boston, MA*
- Extracted and processed data from 100+ business profiles using **Google Places API** and **Pandas**, creating a vectorized database with key metrics (such as ratings, location, community data) for efficient analysis
- Utilized **vector similarity**, **one-hot encoding**, ranking systems, and **Llama 2** to develop a recommendation system, boosting the online visibility of BIPOC-owned small businesses by 30% by providing tailored insights

**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 using **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, leveraging **Unsplash API** (free image library), **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 engineers, supporting 500+ student users
- Implemented timed test-taking, score evaluation and reporting, and personalized AI-powered explanations; migrated database to Firestore and deployed infrastructure across Firebase and DigitalOcean

**Campus Hero App** | *Python, Flask, React, Docker, AWS* | link                                  Aug 2024 – Sep 2024
- Created and deployed a real-time incident alert system backend and a mental health chatbot backend on AWS
- Built a Public Safety Dashboard using **ReactJS**, allowing real-time monitoring of student safety on campus

**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, 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, Jira, VS Code, IntelliJ
**Libraries**: Pandas, NumPy, BeautifulSoup, TensorFlow, Transformers, Scikit-learn, LangGraph, LangChain, OpenCV