



Phong Nguyen

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EDUCATION

- **University of South Florida (USF GPA: 3.81)** **Tampa, FL**
Bachelor of Science in Computer Science Expected August 2026
Relevant Coursework: Data Structures & Algorithms, Analysis of Algorithms, Computer Architecture, Database Design, Introduction to AI, Object-Oriented Programming...
- **Saint Petersburg College (GPA: 3.90)** **St. Petersburg, FL**
Associate of Arts Degree Fall 2021 - Fall 2024

PROJECT

Stock Chatbot | Full-Stack AI-Powered Financial Assistant **August 2025**

- Developed full-stack financial chatbot using Python Flask backend, LSTM neural network for stock price prediction, and Streamlit frontend for interactive user experience
- Engineered RESTful API to process natural language queries, integrate Alpha Vantage API for real-time stock data, and serve ML predictions through conversational interface
- Implemented LSTM time series forecasting model with modular architecture supporting automated retraining, model persistence, and scalable prediction pipeline
- Designed modular system architecture with separate backend, frontend, and ML components, enabling a maintainable codebase and easy model updates

Technologies: Python, Flask, Spacy, Keras/TensorFlow, Pandas, yfinance, Streamlit.

Finance Portfolio Dashboard: **June 2025 – July 2025**

- Created a responsive user interface with HTML, CSS, and JavaScript, featuring dynamic charts (Chart.js) and tables that update in real-time without page reloads.
- Developed a full-featured portfolio management system with CRUD functionality to buy and sell stocks, track holdings, and manage a cash balance, all stored in a SQLAlchemy database.
- Implemented features to calculate and visualize historical portfolio performance and asset allocation, providing users with a clear overview of their investments

Technologies: Python, Flask, SQLAlchemy, Pandas, yfinance, JavaScript, HTML, CSS, Chart.js.

News Aggregator Websites: **July 2024**

- Developed the application's backend using Django, designing a relational MySQL database schema to efficiently store and categorize news articles while implementing data validation logic to prevent duplicate entries.
- Engineered an automated web scraping pipeline using Python, BeautifulSoup, and Requests, orchestrated by a custom Django management command to fetch, parse, and process articles from multiple news sources.

Technologies: Python, Django, HTML, CSS, JS, REST API, MySQL, BeautifulSoup.

SKILLS

Languages: C/C++, Python, HTML, CSS, JS, SQL (MySQL, SQLite),

Frameworks: Django, Flask, React.js, TailwindCSS, Bootstrap, TensorFlow/Keras,

Tools: Git, GitHub, Gitlab, Docker, Postman