



Phong Nguyen

Phone: 727-317-7965 - Email: pnguyen27@usf.edu – GitHub: <https://github.com/skyfalljoss/>

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 Algorithm, Computer Architecture, Design Database, Introduction to AI, Object-Oriented Programming...
- Saint Peterburg College (GPA: 3.90) St. Peterburg, FL
Associate of Art 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 maintainable codebase and easy model updates

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

Finance Portfolio Dashboard: July 2025 – August 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**, **Beautiful Soup**, 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, python-dateutil

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...