



# Phong Nguyen ↩

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## EDUCATION

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- **University of South Florida (USF GPA: 3.81)** **Tampa, FL**  
Bachelor of Science in Computer Science Expected December 2026
- Relevant Coursework: Data Structures & Algorithms, Analysis of Algorithms, Computer Architecture, Database Design, Introduction to AI, Object-Oriented Programming...

## PROJECT

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**Loveable Clone** | *Next.js, React, TypeScript, PostgreSQL, OpenAI, Clerk, Docker, Vercel...*

- Engineered an AI agent using Inngest and OpenAI to generate and build full Next.js applications from text prompts within secure, containerized E2B sandboxes.
- Implemented a full-stack, type-safe architecture using tRPC for API communication and Prisma ORM for data persistence with PostgreSQL.
- Integrated Clerk to build end-to-end SaaS functionality, including secure user authentication, protected routes, and a multi-tiered subscription model with credit-based rate limiting.

**AI Stock Chatbot** | *Python, Flask, SpaCy, Keras/TensorFlow, scikit-learn, Streamlit...*

- Engineered a full-stack AI chatbot using Python and Flask, leveraging SpaCy for natural language understanding (NLU) within a RESTful API to process user queries and serve livestock predictions.
- Implemented an LSTM time series forecasting model with an automated retraining pipeline, ensuring sustained prediction accuracy on real-time data from the Alpha Vantage API.

**Finance Portfolio Dashboard** | *Python, Flask, JS, Chart.js, SQLAlchemy, Pandas, yfinance...*

- Built a full-stack dashboard (Flask, SQLAlchemy) using the yfinance API and Pandas to manage transactions and analyze portfolio performance.
- Engineered a responsive JavaScript UI with Chart.js for live, asynchronous visualization of asset allocation and value.

**News Aggregator Websites** | *Python, Django, TailwindCSS, JS, REST API, MySQL, Beautiful Soup...*

- Developed a Django backend with a MySQL database to efficiently categorize and deduplicate aggregated news articles.
- Engineered an automated Python scraping pipeline (Beautiful Soup) to ingest news from diverse sources like CNN, BBC, CBS news...

## SKILLS

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**Languages:** JavaScript, TypeScript, Python, C/C++, C#, SQL, HTML/CSS

**Frameworks & Libraries:** React, Next.js, Node.js, Django, Flask, .NET, tRPC, TailwindCSS, Streamlit, Keras/TensorFlow, scikit-learn, SpaCy, Pandas

**Databases:** PostgreSQL, MySQL, SQLite, Prisma, SQLAlchemy

**Tools & DevOps:** Git, Docker, Vercel, Clerk, Postman, Jira, Inngest, OpenAI API, E2B