

Joseph Nguyen

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PROGRAMMING EXPERIENCE

PSU Capstone

Participated in a 20-week software engineering project to design and build a real-world application for clients

Automated Email Responder – [Github](#)

A Google extension integrated into Gmail's interface that uses AI to generate responses to email messages for PSU's Computer Science Graduate Advisors

- Collaborated with a team of 9 software developers over a 6-month period to deliver a production-ready application used daily by professionals
- Held regular meetings with clients to discuss project milestones, ensuring the product met their requirements
- Utilized LangChain to build a modular, full-featured LLM application that scrapes PSU's bulletins, FAQ documents, and websites for up-to-date information
- Integrated AI to generate automated email responses, improving the efficiency of graduate advisors

Gogym – [Github](#)

A an application that allows users to add exercises, create workouts, and track their fitness progression

- Designed and implemented a REST API in Golang to manage users, workouts, and exercises
- Developed user authentication and authorization features to ensure secure access
- Utilized PostgreSQL for database management and data persistence

Nutrilog – [Github](#)

An application designed to promote healthy eating by helping users keep track of macronutrients and total caloric intake

- Built an asynchronous REST API in Python to track users' macronutrient and caloric intake
- Designed a database schema using PostgreSQL to efficiently store and retrieve nutritional data
- Implemented endpoint validation and error handling to ensure robust API performance

Invest Bot – [Github](#)

A machine learning bot that trades stocks by analyzing news articles and performing sentiment analysis

- Developed a machine learning bot in Python to trade stocks based on sentiment analysis of news articles
- Implemented sentiment analysis using natural language processing (NLP) techniques to assess news article impact on stock prices
- Integrated with trading platforms for automated stock trading based on analyzed data
- Conducted backtesting and performance evaluation to optimize trading strategies and improve accuracy

TECHNICAL SKILLS

Languages: Python, Golang, C++, TypeScript, JavaScript, Java, Rust

Frontend Tech: React.js, Next.js, Tailwind CSS, Chakra UI, Material UI, React Native, HTML, CSS

Backend Tech: FastAPI, Flask, Node.js, Express.js, Redux, MongoDB, PostgreSQL, MySQL, SQLite, Prisma, Django

Other: Git, Google Cloud, AWS, LangChain, LangSmith, Pygame, Pytest, Stripe, Jest

EDUCATION

University of Portland

Bachelor of Science, Computer Science

June 2024

GPA: 3.84

University of Dallas

Bachelor of Arts, Philosophy & Religious Studies

May 2019

GPA: 3.74

WORK EXPERIENCE

Safe Harbor Solutions LLC – IT Technician Intern

Sept 2021 – Dec 2021

- Provided technical support and resolved hardware and software issues for clients, demonstrating strong problem-solving skills
- Managed billing documents and utility accounts using Microsoft Excel to ensure accurate and efficient record-keeping