Anthony Nguyen
Software Engineer

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Education

The University of Texas at Austin   Class of 2025

- Bachelor of Science in Computer Science   3.5 GPA
- *Computer Science Coursework:* CS 314 Data structures and Algorithms, CS 311 Discrete Mathematics, AP Computer Science
- *Current Coursework:* CS 429 Computer Organization and Architecture, M340L Matrices and Matrix Calculations, SDS 321 Probability and Statistics

Self-Study Coursework

- Responsive Web Design Certification on FreeCodeCamp.org
- Complete SQL Bootcamp on Udemy
- Learn Python 3 course on Codeacademy.com

Technical Skills

Languages: Python, SQL, Java, JavaScript, CSS, HTML

Technologies: AWS, Jupyter Notebook, Git, Github, Beautiful Soup, Selenium

Experience

Hackathon: Freetail Hackers Hack for Humanity   April 2022

- Worked in a team of 3 to develop a concept website that makes healthcare information more easily accessible to people such as the elderly or under privileged.
- Utilizes Microsoft Azure as a chat bot, and the Google maps API to find hospitals in any location around the globe.
- Languages used to make the website were HTML, CSS and JavaScript
- Received first overall out of over 30 teams that participated

The Spinning Wheel Shop, Houston, TX   June 2019 – August 2021

- *Data entry clerk*
- Kept track of company merchandise and maintained company's excel database of over 25000 items
- Was able to accomplish the sorting and input of over 1000 items per day using custom scripts written in python using openpyxl

Personal Projects

AWS based encrypted password manager application

- Utilizes AWS Relational Database Service to store user data with the usage of SQL
- Encrypts user data using the SHA-256 hashing algorithm as well as the Fernet python library to accomplish Zero Knowledge encryption.
- Utilizes Python's Tkinter library for the GUI
- Deployed as a Windows application and is currently being developed as a fully usable android and IOS application using Kivy.

Reddit Sentiment Analysis Web Scraper

- Programmed in Python to crawl through various subreddits and determine the average sentiment of its comments.
- Users can enter a subreddit link and the program scrapes the data that can then be used to determine sentiment of the subreddit
- Technologies used were Beautiful Soup, Selenium, and Text Blob from Python's Library

Huffman Compressor

- A project built with Java during Data Structures and Algorithms class that uses the Huffman Compression algorithm to achieve lossless compression
- Users can input any type of file for compression into a .hf format, which can then be decompressed using the same program

Weather Application

- Website that allows users to access weather information for any location in the world.
- Users can enter any city name in the world, and will be displayed weather information for that location such as temperature and humidity
- The program utilizes the Openweathermap API in order to distribute information to users.
- Programmed using HTML, CSS and JavaScript