

# Anthony Nguyen (Software Engineer)

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## EDUCATION

**The University of Texas at Austin**, Austin, TX Sophomore  
GPA 3.5  
*Bachelor of Science in Computer Science*  
*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

**Klein Forest High School**, Houston, TX Class of 2021  
*Ranked 6<sup>th</sup> out of 779 students graduated with a 5.54/6 GPA*

### Self-Study Coursework

- FreeCodeCamp.org responsive web design certification
- Udemy: Complete SQL Bootcamp
- Codecademy.com: Learn Python 3 course

## Experience

**Fretail Hackers Hack for Humanity Hackathon** 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.
- The website 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 Azure, HTML, CSS and JavaScript
- Received first overall out of over 30 teams that participated

**The Spinning Wheel Shop**, Houston, TX 2019-2021

- *Position: Data entry clerk*
- Responsibilities: Responsible for keeping track of company merchandise and maintaining the 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.

## PROJECTS

- **AWS based encrypted password manager application**
  - Password management application that utilizes an Amazon Web Services Relational Database Service to store user data with the usage of SQL as the database language.
  - Programmed using Python and SQL, it encrypts user data using the SHA-256 hashing algorithm as well as the python Fernet library to accomplish Zero Knowledge encryption.
  - Technologies used were AWS and Tkinter for the General User Interface.
  - 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**
  - A web scraper programmed to crawl through various subreddits to determine the average sentiment of its comments.
  - Users are able to enter a subreddit link and the program scrapes the data that can then be used to determine sentiment of the subreddit
  - Programmed using python
  - Technologies used were BeautifulSoup, Selenium, and Text Blob
- **Huffman Compressor**
  - A project built during my Data Structures and Algorithms course that uses the Huffman Compression algorithm to achieve lossless compression
  - Users are able to input any type of file for compression into a .hf format, which can then be decompressed using the same program
  - The programming language used was Java
- **Weather Application**
  - A weather application that allows users to access weather information for any location in the world.
  - Users are able to 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
- **Flappy Bird Clone**
  - A copy of the popular internet game known as Flappy Bird
  - Programmed using Java during my AP Computer Science Principles class
  - Utilizes the Java Swing library and Object-Oriented Programming Principles learned in AP Computer Science
  - Features of the game include gravity and collision mechanics, as well as score tracking for users

## TECHNICAL SKILLS

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

**Technologies:** AWS, Jupyter Notebook, Git, BeautifulSoup, Selenium