

Anthony Nguyen

346-228-8467 | hiepowork@gmail.com | linkedin.com/in/hiepowork | hiepowork.github.io

EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science

August 2021 – May 2025

- GPA: 3.6/4.0
- Relevant Coursework: Data structures and Algorithms, Computer Organization and Architecture, Operating Systems, Machine Learning, Distributed Systems

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, C++, SQL, PHP, Clojure

Frameworks: jQuery, Backbone.js, Selenium, Pandas

Technologies: AWS, Docker, Postman, Git, Linux

EXPERIENCE

Software Engineering Intern

May 2023 – December 2023

Arena Investors LP

New York, NY

- Integrated Zoom API into company financial software, improving data retrieval efficiency and accuracy.
- Stored information from the Zoom API into SQL databases to enhance data organization and accessibility, increasing daily amount of stored meeting records by 50%.
- Achieved a 25% reduction in application load and query times through efficient data retrieval techniques and optimized database queries.

Python Developer

June 2019 – August 2021

The Spinning Wheel Shop

Houston, TX

- Built a robust application to organize and maintain 25,000 merchandise items for a better streamlined manufacturing process
- Automated sorting and input of items with custom Python scripts, improving inventory processing efficiency by 50%.
- Implemented data validation and error handling within the Python scripts allowing data reliability and error minimization to be decreased by 90%.

Hack for Humanity

April 2022

Freetail Hackers Hackathon

Austin, TX

- Collaborated in a team of 3 to develop a concept website for easy healthcare information access, targeting underprivileged individuals, especially the elderly.
- Utilizes a Microsoft Azure chatbot to talk to potential patients and Google Maps API to find hospitals.
- Received first overall out of over 40 teams that participated, and first place in the novice division.

PROJECTS

Encrypted Password Manager | Python, AWS, SQL, Tkinter

- Employed AWS Relational Database Service to securely store multiple user's data.
- Implemented the SHA-256 hashing algorithm and the Fernet Python library to achieve Zero Knowledge encryption.
- Developed the graphical user interface (GUI) using Python's Tkinter library, providing a user-friendly experience.
- Decreased password retrieval latency by 50% by optimizing SQL queries and database design

ARM System Emulator | C, Computer Architecture

- Developed a 32 bit ARM system emulator implementing fetch, decode, execute, memory, and writeback stages accurately simulating how instructions are passed through a computer.
- Optimized emulator performance by implementing efficient instruction pipelining and parallel processing techniques, resulting in a 50% improvement in speed and system throughput.
- Designed and implemented a least recently used cache within the emulator, incorporating memory management techniques to improve data access latency by 25%.

Reddit Sentiment Analysis Web Scraper | Python, Selenium, BeautifulSoup, TextBlob

- Programmed to crawl various subreddits and collect large datasets of comments for sentiment analysis.
- Applied natural language processing techniques to calculate the average sentiment of comments, providing valuable insights into community trends over time
- Optimized CSS selectors and HTML parsing, allowing for the web scraper to collect data at a 50% faster rate than when first initially developed.