

# Phu “Jack” Nguyen

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## EDUCATION

### TEXAS A&M UNIVERSITY

B.S in Computer Science. GPA: 4.00

College Station, TX

May 2023

**Honors:** Meredith H. James Endowed Scholarship: \$1000

**Relevant Coursework:** Data Structures and Algorithms, Program Design and Concepts, Computer Organization, Principle of Statistics I, Discrete Structures for Computing, Electrical Circuit Theory, Digital Systems Design, Engineering Lab Computation

## SKILLS

**Proficient:** C++, Git, LaTeX, HTML, CSS

**Familiar:** Python

## RELEVANT EXPERIENCE

### TEXAS A&M DEPARTMENT OF ENGINEERING

Fall 2021

*Undergraduate Peer Teacher*

- Providing administrative and technical assistance and maintaining good communication with the professor to foster a productive teaching environment
- Communicating and instructing students (Python) one-on-one during office hours to ensure students' academic success and create an inclusive learning environment
- Grading students' work and providing constructive feedback to evaluate and enhance student comprehension of the material

### LIBRARY DATABASE MANAGEMENT SYSTEM (C++)

Spring 2021

- Implemented a doubly linked list data structure to create a database management system
- Utilized generic programming through templates to improve program design and reduce coding time
- Composed a detailed report to observe good program documentation practices

### MINIMUM PRIORITY QUEUE CPU IMPLEMENTATION (C++)

Spring 2021

- Researched three implementations of a minimum priority queue using a vector, linked list, and binary heap to improve runtime efficiency for a computer processor simulation
- Utilized inheritance to modularize and refactor code, leading to reduced coding time
- Composed a report to document program design and analyze effects on runtime

### DISCOVER AI 2020

Fall 2020

- Researched common machine learning algorithms such as regression, gradient descent, and decision trees
- Created a machine learning model using Google's web-based tool Teachable Machine to investigate and demonstrate current limitations in machine learning

## ACTIVITIES

### AGGIE CODING CLUB

August 2020 – Present

### TAU BETA PI

August 2020 – Present

### ENGINEERING HONORS

August 2019 – Present

### TEXAS A&M VIETNAMESE STUDENT ASSOCIATION

May 2020 – Present