

# ALLEN LU

[allenlu9326@gmail.com](mailto:allenlu9326@gmail.com) • Houston, Texas • 281-614-9838

LinkedIn: <https://www.linkedin.com/in/allen-lu-6a6736203/>

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## EDUCATION

**The University of Houston, Houston TX**

May 2022

**Bachelor of Science, Computer Science**

GPA: 3.45

**Relevant Coursework:** Algorithms, Data Structures, Computer Architecture and Organization

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## SKILLS

**Languages:** C++, PYTHON, ASSEMBLY

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## PROJECTS

### Hip Hap Alerts

December 2020

- Designed a alert system using Python that can send hip-hop related facts to a mass group of people
- Disguises email alert as a SMS message
- Using Google Email as the main server that will distribute the alert
- Programming knowledge gained from experience:
  - Familiarizing myself with Python
  - Use of external server to deliver the alerts rather than local

### Flappy Bird Game

October 2020

- Recreated the famous mobile game with C++
- Implementation of physics into the game
- Programming knowledge gained from experience:
  - Object Oriented Programming
  - Accessing external game engine to power the program
  - Implementation of a Video Game
  - User input to control the "bird"

### Snake Game

December 2019

- Recreated the video game "Snake" with C++
- Programming knowledge gained from experience:
  - Implementation of a Video Game.
  - Understanding User input to enact specific actions in the program
  - Understanding of an internal 2D Grid and Mapping it to a display Grid
  - General Purpose Input/Output

### ASCII Text Converter

January 2019

- Created a python program that takes in a user input and returns it as a ASCII
- Programming knowledge gained from experience:
  - Basic understanding of Python syntax

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## LEADERSHIP

### Tzu-Chi Foundation:

August 2014 - April 2016

- **Student Leader:** Organizing of seasonal charity events to the homeless in the Chinese/Vietnamese community

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## PROFESSIONAL EXPERIENCE

### Yen Huong Bakery: Essential Worker

May 2020 - September 2020

- Labor work at family owned business, helping and settling orders for customers