

Anthony Quoc-Anh Nguyen

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Summary

Current 1st year college student at UCI studying computer science with experience in Java and Python

Education

University of California, Irvine

Sep. 2021 - June 2025

B.S: Computer Science

GPA: 3.92/4.0 Dean's Honors List (2021, 2022)

Relevant Coursework

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- Python Programming and Libraries
 - Discrete Mathematics for Computer Science
 - Intermediate Programming
 - Computation Linear Algebra
 - Boolean Logic and Discrete Structures

Projects

Asteroids Game (Java):

Mar. 2020

Summary: Player controls a spaceship that shoots at asteroids to break them into smaller asteroids which adds to the player score

- Instantiated different asteroid objects from the asteroid class which was a subclass of the abstract class, Actor.
- Built using Greenfoot API for player controls and for populating the world

Columns Game (Python)

Sep. 2021

Summary: Created a standard Columns game with GUI using PyGame

- Established a view and model procedure to separate rules and visuals of the Columns game
- Utilized test-driven development with the unittest library to ensure model followed Columns game rulebook
- Constructed a grid layout to display the falling columns which mutates whenever the model detects a matching in the grid

Try Not to Breathe (Python)

Oct. 2021

Summary: Given an address, used a provided database of locations to locate areas with harmful air quality within a provide radius of the center address

- Implemented Geocoding to calculate the distances between the center locations' and nearby locations using PurpleAir database
- Leveraged Reverse Geocoding to convert latitude and longitude into a location address using Nominatim's API
- Parsed air quality sensor JSON data provided from the PurpleAir API to calculate air quality index of each location

Personal Finance Account (Python):

Jan. 2022

Summary: Update and categorize expenditures such as investments and daily necessities into a readable Excel file

- Applied Python hashtables to determine the category of a given expenditure by analyzing its cost and location
- Implemented external libraries such as urllib and openpyxl to access the Excel file and update the current stock trading prices using Polygon.io API.

Skills

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- Proficient in Microsoft Office
 - Proficient in Python
 - Proficient in Java
 - Intermediate in Revit