Zachary Patrone

Python Developer

(805)-630-8627
Long Island, NY
zacharypatrone@gmail.com

github.com/zacharypatrone
linkedin.com/in/zacharypatrone

After writing my first Python program, I knew I found the perfect career where my creativity and problem-solving skills would intertwine. Becoming a software developer has kept me engaged and striving to learn the next-great tool. My passion for programming will only continue to grow as I see the results of the work I get to be a part of.

SKILLS

Programming Languages	Python, HTML/CSS, C#, Java
Tools	Git, Amazon Web Services (AWS), MS Project, Tableau, PowerBI

PROJECTS

Customer Service Tweet Analysis
Language: Python

- Designed a program that trains several machine learning models to classify online reviews and determine if they are relevant to a safety hazard.
- Retrieves tweets through a pre-made API and uses natural language processing to determine keywords from a calculated relevancy score.
- Trains a Decision Tree, K Nearest Neighbor, and Neural Network, then selects the best performing model.

Packages Used: JSON, nltk, requests, scikit-learn, warnings

Movie Analytics Tool
Language: Python

- Allows the user to search for a movie of their choosing and obtain further information about it using online data and text analysis.
- Retrieves data from OMDB API, using XML to carry data.
- Uses natural language processing to perform sentiment analysis on the given movie.

Packages Used: JSON, nltk, requests, xmltodict

2D Platformer Game: Peter the Beaver, A Very Bad Day
Language: C#

- Play as Peter the Beaver after a very bad day. The family dam has broken and you must traverse through the levels collecting logs to rebuild it.
- Tracked changes using the version control system Git.
- Designed all the art and animation in the game.

Game Engine: Unity

E-Commerce Website
Language: HTML, CSS

- Created and launched a clothing website through Amazon Web Services.
- Utilized WordPress for a theme and implemented WooCommerce as the E-Commerce plugin.

AWS Services: EC2, Route 53, S3

EDUCATION

San Diego State University | San Diego, CA
Bachelor of Science in Management Information Systems   **May 2022**
Minor in Computer Science

RELEVANT COURSEWORK

Object-Oriented Programming for Business Applications	Data Structures	Project Management
Intermediate Computer Programming	Game Programming	Business Intelligence & Analytics
E-Business/Web Development	Networks and Data Communications	Discrete Mathematics