Brandon Eng

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Education

California Polytechnic State University, San Luis Obispo
BS: Computer Engineering   December 2016

Skills

Programming Languages – Python, Java, C, C#, C++
Libraries/Frameworks – Django/DRF, Beautiful Soup
Environment/Tools – MySQL, GIT, Postman, AWS (EC2, RDS), NGINX, Ubuntu, Docker

Projects

Minigames – https://worldminigame.com/ – GitHub   February 2022
- Play Rock Paper Scissors or Coin Toss that record the joint play record of all players
- Developed RESTful API using Django Rest Framework in Python
- Setup a CI/CD workflow utilizing GitHub Actions
- Uses JavaScript and HTML to design frontend
- Runs Django unit tests to maintain functionality
- Deploys on AWS EC2 utilizing a RDS MySQL database

MHR Monsters – https://mhr-monsters.herokuapp.com/ – GitHub   January 2022
- Displays details on large monsters in Monster Hunter Rise
- Provides users with a simple view on monster's average weaknesses
- Makes use of Django Rest Framework to communicate between web interface and MySQL database
- Created frontend using Django Templates
- Employs Django REST Framework through Python
- Deployed using Heroku and ClearDB

Monster Hunter Rise Data – GitHub   January 2022
- Scrapes websites to retrieve HTML data from Monster Hunter Rise using Python
- Processes HTML information and outputs data into CSV
- Employs Beautiful Soup to extract HTML

MHR Builder – https://www.mhrbuilder.com/   May 2021—August 2021
- Visited and used by 22,000 users over the course of a year
- Collaborative work in designing armor and weapon simulator for Monster Hunter Rise
- Extrapolates figures based on game and user equipment to improve their theoretical output
- Gathers and stores equipment data in JSON
- Encodes data into Base64 for ease of sharing
- Utilizes Vue.js to develop frontend
- Tested application to confirm functionality

LZW Decompression   February 2015
- Decompressed data that was compressed using LZW compression. Written in C.
- Developed how program stores and generate data
- Used bit manipulation to convert compressed data into ASCII

Work Experience

Team Member at *KFC / Taco Bell*   October 2018 – April 2020
Counter Help at *Panda Express*   October 2017 – October 2018