Nathaniel Marquez

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Education

Carnegie Mellon University
Pittsburgh, PA
School of Computer Science
B.S. Artificial Intelligence (Intended)
Minor in Innovation and Entrepreneurship
Class of 2024 • GPA: 3.55/4.0

Skills

Proficient Languages
Python • Java

Basic Languages
C++ • JavaScript

Other Development Skills
HTML • CSS • WordPress • Wireframing
• Knowledge of MVC and OOP • Git

Relevant Coursework

15122: Principles of Imperative
Computation (C, Data Structures & Algs)
07180: Concepts in AI
21259: Calculus in 3-D
15112: Fundamentals of Programming
and Computer Science (Python)
21241: Matrices and Linear
Transformations
15151: Mathematical Foundations of
Computer Science (Discrete Math)

Honors

Hispanic Scholarship Fund
Aug 2020

**Future Business Leaders of America
Website Design**
*7th Internationals/1st State • July 2019
(See Projects).*

**University Interscholastic League
Number Sense**
*1st Team/3rd Individual
Virtual State Meet • April 2019*

Projects

POG PONG *(Devpost)*
Carnegie Mellon 15-112 Term Project • December 2020
Programmed a 3D ping pong game using TkInter and CMU 's MVC framework. Used OpenCV for "camera controls", which gives users the option to control the paddle with their hand.

StudyBuddy *(Devpost)*
Hack112 x CMU 24 Hour Hackathon • November 2020
Created a personal study analytics app that leverages computer vision and machine learning to help students study more effectively.

Market Spoofing Detection *(Devpost)*
Citi Bank x CMU • October 2020
Created a machine learning classifier with PyCaret to classify "spoofs", orders in the stock market that illegally influence the market price.

Accuracy Accounting Website *(Presentation)*
Future Business Leaders of America Website Design • July 2019
Used Wordpress, jQuery, and HTML/CSS to develop a fully responsive and dynamic website for an accounting company. (See Honors)

Work Experience

Carnegie Mellon University, School of Computer Science
*15-112: Fundamentals of Programming & Computer Science
Teachers Assistant • Spring 2021*
Leads recitations of ~20 students, assists with grading, and planning a school wide hackathon, Hack112, involving 200+ students.

CodeNinjas
Sensei • Summer 2020 • Austin, TX
Taught basic Javascript and ran summer camps about Introductory CAD, Digital Modeling and other various STEM topics.

Activities

Youtube Channel *(See Here)*
Vlogs my experiences at CMU and gives college application advice.

Carnegie Mellon Filipino Student Association
Member • August 2020 - Present
Helps promote the Filipino Community through cultural events, guest lectures, and celebrations.

Universal Interscholastic League Number Sense
Team Captain • 2011 - 2020
Competed in 10 minute, 80 question, mental math tests. (See honors) Organized practices with coach, recruited/mentored new members.