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

07180: Concepts in Al

21259: Calculus in 3-D

15112: Fundamentals of Programming

and Computer Science

21241: Matrices and Linear

Transformations

15151: Mathematical Foundations of

Computer Science

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 (<u>Devpost</u>)

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)

Volunteer and Work Experience

Carnegie Mellon University, School of Computer Science

15-112: Fundamentals of Programming & Computer Science Teachers Assistant • Spring 2021

Leads recitations of \sim 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.