

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
May 2024 • GPA: 3.55/4.0

Stony Point High School

Round Rock, TX
International Baccalaureate
(IB) Diploma Recipient
May 2020 • GPA: 5.68/5.0

Skills

Proficient Languages

Python • Java

Basic Languages

C++ • JavaScript

Other Development Skills

HTML • CSS • WordPress • Balsamiq
Wireframing • Adobe Premiere Pro

Honors

Hispanic Scholarship Fund

Aug 2020

Future Business Leaders of America

Digital Video Production

10th Internationals/1st State • Jul 2020
Pitched an airline company through a
[commercial](#).

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 Carnegie Mellon'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
Developed a fully responsive website for an accounting company with animations, a booking system, and a blog. (See Honors)

Work Experience

Carnegie Mellon University, School of Computer Science

15-112: Fundamentals of Programming & Computer Science
Teachers Assistant • Spring 2021 (Upcoming Role)
Leads recitations of ~20 students, assists with grading, and planning a school wide hackathon, Hack112, involving 200+ students.

CodeNinjas

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

Activities

Carnegie Mellon Filipino Student Association

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.