

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.

