

Nathaniel Marquez

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Education

Carnegie Mellon University

Pittsburgh, PA
School of Computer Science
B.S. Artificial Intelligence
Minor in Innovation and Entrepreneurship
Class of 2024

Skills

Proficient Languages

Python • C • JavaScript (React, Node.js)

Basic Languages

C++ • Java

Other Development Skills

HTML • CSS • WordPress • Wireframing •
Knowledge of MVC and OOP • Git

Relevant Coursework

Enrolled Courses:

15213: Intro to Systems

1510: Principles of Functional Programming

Previous Courses:

15122: Principles of Imperative
Computation (C, Data Structures & Algs)

15112: Fundamentals of Programming & CS

07180: Concepts in AI

21259: Multidimensional Calculus

21241: Matrices and Linear Transformations

15151: Discrete Math

Honors

Hispanic Scholarship Fund

Aug 2020

Future Business Leaders of America

Website Design ([Presentation](#))

7th Internationals/1st State • July 2019

University Interscholastic League

Number Sense

1st Team/3rd Individual

Virtual State Meet • April 2019

Work Experience

Fanhouse

Software Engineer Intern • Summer 2021

Deployed full-stack web features using React and Node.js for the social media platform. Developed a weighted social graph for improved content recommendation, and trained a neural network to classify images that violated community guidelines. Worked with marketing to onboard and sponsor YouTubers, and brainstormed experiments with company founders to increase GMV.

Carnegie Mellon University, School of Computer Science

15-112: Fundamentals of CS • Teachers Assistant • Spring 2021

Lead recitations of ~20 students, assisted with grading and ran 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.

Projects

POG PONG ([Devpost](#))

Carnegie Mellon 15-112 Term Project • December 2020

Developed a 3D ping pong game using CMU's MVC framework. Implemented OpenCV for hand-tracking camera controls.

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

Generated a machine learning classifier with PyCaret to classify "spoofs", orders in the stock market that illegally influence prices.

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.