

ISAAC NGUYEN

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EDUCATION

University of California, Irvine

Bachelor of Computer Science

Cumulative GPA: 4.0

September 2023 - Present

Irvine, CA

- Second Year Standing

Palos Verdes Peninsula High School

Cumulative GPA: 4.0/4.0, 4.886/5.00

September 2019 - June 2023

Rancho Palos Verdes, CA

- Graduated Valedictorian, Awarded Mu Alpha Theta Scholarship
- Relevant Coursework: AP CS A (5), AP Calculus BC (5), AP Spanish Language & Composition (4)
- Activities: FRC Robotics, TSA TEAMS Captain, Science Bowl Main Team, Honor Societies

LEADERSHIP & EXPERIENCE

IEEE (Institute of Electronic and Electrical Engineers)

September 2023 - Present

OPS Program

Irvine, CA

- Selected for a year-long embedded systems course at the University of California, Irvine, exploring integrated circuits, microcontrollers, and hardware communication.
- Applied C++ in conjunction with Arduino to enhance proficiency in embedded programming.
- Actively engaged in project-based learning with eight individual projects and a final capstone—a remote-controlled rover

South Bay Math Circle

March 2020 - June 2023

Curriculum Board Member

Rancho Palos Verdes, CA

- Guided and inspired over 200 students (grades 4-8) in competition-based mathematics.
- Conducted weekly educational sessions, delivering engaging lectures to student groups.
- Formulated and curated a comprehensive curriculum tailored to optimize student learning experiences.
- Orchestrated and oversaw math tournaments and competitions, establishing a secure and educational environment for students.

PROJECTS

Faster Fashion | *JavaScript, Flask, PostgreSQL, HTML/CSS, RESTful API*

January 2024

- Won 1st place at IrvineHacks 2024 (340+ participants) in Google Cloud API category
- Leveraged Google Cloud Vision AI to detect articles of clothing and their attributes in inputted image
- Used refined algorithm to compare clothing against clothing in web scraped clothing database
- Presented user with accessible links and descriptions of similar clothes found online

Stock Portfolio Simulation | *JavaScript, Flask, HTML/CSS, SQLite3*

December 2023

- Orchestrated the development of a full-stack website utilizing the Yahoo Finance API
- Enabled users to quote, buy, and sell stocks within a simulated environment
- Implemented real-time tracking of transactions through a dedicated history tab and database

HONORS & AWARDS

Advanced Computer Science Department Award

May 2023

- Issued by Palos Verdes Peninsula High School Computer Science Department

Letter of Commendation

September 2022

- Issued by National Merit Scholarship Program

SKILLS & EXPERTISE

Programming Languages: Python, Java, C, C++, SQL, HTML/CSS, JavaScript

Technologies/Frameworks: RESTful API, Flask, Jinja, Bootstrap, Tkinter, Git, Github, VS Code, Eclipse

Languages: English (Fluent), Spanish (Working Proficiency)