ISAAC NGUYEN

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EDUCATION

University of California, Irvine **Expected Graduation June 2027**
B.S. of Computer Science *Irvine, CA*
GPA: 4.0/4.0

- Relevant Coursework: Discrete Mathematics, Boolean Algebra & Logic, Python Programming Series

Palos Verdes Peninsula High School **September 2019 - June 2023**
Cumulative GPA: 4.0/4.0, 4.886/5.00 *Rancho Palos Verdes, CA*

- Graduated Valedictorian, Awarded Mu Alpha Theta Scholarship
- Activities: FRC Robotics, TSA TEAMS Captain, Science Bowl Main Team, Honor Societies

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, C++, HTML/CSS, Java, SQL
Technologies/Frameworks: Node.js, React, Express.js, Flask, RESTful API, Firebase, Git, VS Code

PROJECTS

Faster Fashion | *JavaScript, Python, Flask, PostgreSQL, HTML/CSS* **January 2024**

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

Spotr | *JavaScript, Node.js, Express.js, React, Firebase, RESTful API* **April 2024**

- Constructed full-stack application that allowed users to share favorite locations via pins using the Google Maps API
- Implemented Firebase for efficient storage and retrieval of location data, ensuring seamless interaction with React frontend
- Utilized Node.js to communicate with the backend, employing Express.js for server hosting
- Integrated username-password authentication, enabling users to save pins and access personalized content

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
- 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 established a secure environment for math tournaments and competitions

HONORS & AWARDS

Letter of Commendation **September 2022**

- Issued by National Merit Scholarship Program
- Awarded for scoring in the top 2% of PSAT scorers nationwide (~34,000/1,500,000)