Adrian Nguyen

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Education

- Edison High School, Huntington Beach, CA – Junior | Graduation Date: June 2025. Rank: 5 of 462
- GPA Weighted Total: 4.6; Weighted Grades 10-12: 4.73; Unweighted: 4.0
- SAT: 1560/1600; 770 English 790 Math | PSAT: 1450/1520

Courses / Projects / Experience

Relevant Courses
- AP Courses – AP Computer Science A (5) AP Physics (5), AP Calculus B/C (5), AP Chemistry (5)
- Other APs – AP Human Geography (5), AP European History (5), AP Spanish (4), AP Lang & Comp (4), AP Spanish (4), AP Art History

Research
- Research Assistant for Professor Glenn Healey - EE and CS and Director of Computer Vision Lab at UC Irvine - Oct 2023 to Present
  - Overlaid images to match the seams and spin direction of a baseball to a computer model
  - Developed an algorithm to represent orientation of a baseball to longitude/latitude across its surface
  - Manipulated the values and direction of 3D vectors using matrices
  - Used Access database and SQL to run queries for data analysis
  - Used R and RStudio to modify scripts and generate heat maps based on data
  - Used MATLAB to create scatterplots for analysis
  - Utilized Python to develop an XGBoost model for classification of images
- Orange County Science and Engineering Fair – Recipient of two Special Awards
  - Competed against over 500 high school students across Orange County
  - Created Neural Network models to predict to predict the potability of water based on 9 independent variables
  - Made predictions on a comprehensive dataset from Kaggle
  - Received the Special Awards of the Stockholm Water Prize from the California Water Environment Association (CWEA) and the Excellence in Water from the Orange County Water District
  - Received $300 in Prize Money

Competitions / Awards
- American Computer Science League Champion – First Place Award
  - Top 1.79% (Top 35/1954) of all High School competitors internationally
  - Highest score in-state and internationally (40/40 Points)
  - Requires general programming knowledge and familiarity with core computer science concepts like Boolean Algebra, LISP, Data Structures, and Assembly
- USA Coding Olympiad - Silver Tier Qualifier (845/1000 points)- Dec 2023
  - Top 12.8% of all pre-college participants in this contest
- AFA CyberPatriot National Competition - Platinum Tier (Top 30% of Teams) - 2021, 2022, 2023

Personal Projects
- Used Machine Learning to predict number of home runs by baseball players in future seasons with high accuracy
  - Compared results against multiple ML models: Neural Networks, SVM, Random Forest, and Linear Regression
- Built a Tic Tac Toe web application using HTML, CSS, and JavaScript
- Created a Snake game replica in Java

Work Experience
- IT/Networking Intern at In Home Doctors Inc. – Aug 2023 to Dec 2023
  - Managed/configured office network and ensure functionality of hardware
  - Troubleshot technical issues and performed backups of internal databases
- Volunteer Assistant Activities' Director at Oakmont Senior Living Memory Care, Huntington Beach, CA - May 2023 to Present
  - Assist Activities Director to plan and execute activities/events for seniors and Alzheimer's patients
  - Host classes to teach seniors about cybersecurity threats and improve familiarity with technology

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Skills / Knowledge

- Java, Python, SQL, HTML, CSS, JavaScript
- Windows/Linux OS & Networking
- Microsoft Office & Access
- National/State Competitions
- Leader & Team Player
- Strong Communicator

Leadership / Extracurricular Activities

- EHS CyberPatriot Club - President and Team Leader - September 2021 to Present
  - Led teams of students in securing Windows/Linux OS
  - Conducted training exercises to secure networks using Cisco Packet Tracer
  - Won sponsorship from Coastline Community College
- Mu Alpha Theta Club – Vice President – Prepare for Local Math Competitions (OC Math Meet, M3 Modeling Challenge)
- Recyling Club – Vice President – September 2023 to Present
- Key Club – Vice President - September 2023 to Present
- DYLAN Non-Profit Organization– Co-Founder & Chief Technology Officer – Nov. 2023 to Present
- Boy Scouts of America - Troop Leader and Eagle Scout - 2017 to Present
- EHS Varsity Tennis - 2022 to Present
- Piano lessons, recitals, and competitions - 2013 to Present

Honors
- National Honor Society Member – 2021 to Present
- Edison High School Honor Roll – 2021 to Present
- AP Scholar – 2022
- Golden Key Certificate of Recognition in Math – May 2023; sole Sophomore receiving this honor
- Royal Conservatory of Music Level 10 Comprehensive Certificate – First Class Honors