

Stephen Huan

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Resumé

Education

2018–Present **High School**, *Thomas Jefferson High School for Science and Technology*, Alexandria, weighted GPA 4.466/4.0, currently a junior high school student.

Courses taken

- AP Computer Science plus Data Structures (5 on the APCS-A exam), Artificial Intelligence, AP Calculus BC (5 on the AP exam), Multivariable Calculus

Courses taking

- Matrix Algebra, Parallel Computing, Computer Vision, AP Physics C

Programming Experience

Languages

Python, C++	High	3+ years of Python scripting, Python was used in AI and C++ in CV
Java, C, \LaTeX	Medium	Java was used in APCS, C in parallel, and \LaTeX for this document
Mathematica, Matlab, R	Low	Some familiarity with mathematical languages

Projects

Algorithms Implementations of the simplex algorithm, number theoretic transform, suffix trees, Aho-Corasick automaton, and Fischer-Heun structure to name a few.

TJ Cubing Website Created the website TJ Cubing to automate finding Rubik's cube competitions, maintaining school records, organizing lectures, and other tasks.

GPG-Messenger Pidgin-style Python app that uses the PGP protocol to encrypt messages.

School Research Model selection to predict the number of salamander eggs in pools (SVMs won).

Other

Tutoring Was a paid tutor in Computer Science as well as a volunteer tutor for peers, volunteered to teach Rubik's cubing at [Hope Chinese School](#).

Volunteering Volunteered at [Techstravaganza](#), an outreach event for children, and wrote problems for [TJ IOI](#), a high school programming contest.

Hobbies and Interests

Senior Computer Team Participated in a variety of programming competitions ([USACO](#) (gold), [VTech](#), [PClassic](#), [MBIT](#) (3rd, team), and [UMD](#) (2nd, team)) and wrote [lectures](#).

Machine Learning Club Participated in in-house contests through Kaggle.

Running Year long junior varsity runner on the school's cross country and track teams.

Cubing I average ~10 seconds on the 3x3 Rubik's cube and 13 seconds one-handed.