

Stephen Huan

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Resumé

Education

2017–Present **High School**, *Thomas Jefferson High School for Science and Technology*, Alexandria, weighted GPA 4.54/4.0, currently a high school senior.

Courses taken

◦ AP Computer Science A, Artificial Intelligence, Parallel Computing, Computer Vision, AP Calculus BC, Multivariable Calculus, Matrix Algebra

Courses taking

◦ Machine Learning, Differential Equations, Probability Theory

2020–2020 **Summer**, *University of California, Berkeley*, Berkeley, 4.0/4.0.

Took COMPSCI 61A, “The Structure and Interpretation of Computer Programs”, and MATH N55, “Discrete Mathematics”, as part of the [pre-college scholars](#) program, A+ in both.

Programming Experience

Languages

Python, \LaTeX	High	5+ years of Python scripting and \LaTeX for this document
Java, C, C++	Medium	Java used in AP Computer Science, C/C++ used in some of my classes

Projects

[ASSIP](#) Studied improvements to word embeddings during George Mason University's [Aspiring Scientists Summer Internship Program](#) (ASSIP).

[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 co-captain Wrote and presented [lectures](#), and participated in a variety of programming competitions ([USACO](#) (gold), [VTech](#) (5th), [PClassic](#), [MBIT](#) (3rd, team), and [UMD](#) (2nd, team)).

Vision & Graphics Club Act as a teaching coordinator, write lectures on topics like convolutions, neural networks, linear algebra, and raytracing.

Rubik's Cube Club co-captain and webmaster Run the club as well as maintain the website, write [lectures](#), and also encourage participation in World Cubing Association (WCA) competitions. I average ~10 seconds on the 3x3 Rubik's cube and 13 seconds one-handed (currently [top 100](#) in the US).

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