

EDUCATION	Harvey Mudd College (Claremont, CA) B.S., undeclared major (probably Mathematics & Computer Science) Harvey S. Mudd Merit Scholarship recipient (2017-2021) Relevant coursework: <ul style="list-style-type: none">Principles & Practice of Computer Science (2017 Fall)Multivariable Calculus (2017 Fall)Computability & Logic (2018 Spring, not yet completed)	AUG. 2017–(MAY 2021)
	Monte Vista Christian School (Watsonville, CA) Salutatorian, GPA 4.5 (unweighted 4.0) Relevant coursework: <ul style="list-style-type: none">Digital Electronics (2016 Fall–2017 Spring)	AUG. 2014–MAY 2017
SKILLS	Languages Proficient: Python, L ^A T _E X Competent: Go, Bash, Javascript, HTML/CSS Familiar: Java, Rust, C/C++, Swift	
	Software/Hardware <ul style="list-style-type: none">Arch Linux (personal use and server administration)OpenSCAD (2D/3D CAD programming language)Arduino (basic circuit design and programming)Raspberry Pi (mini home servers)3D printers (maintenance, debugging, and software setup)	
PROJECTS	Totem: Table of the Elements (iOS app) https://appadvice.com/app/totem-table-of-the-elements/954160757 (App Store link removed because of inactivity) <ul style="list-style-type: none">Developed an interactive periodic table app that provides a comprehensive database of physical/chemical/atomic properties about the chemical elementsOver 3K downloads from users in U.S., Canada, Philippines, Thailand, and U.K. Relevant skills: <ul style="list-style-type: none">Data collection: manually cross-checked and tabulated data from several websites into Excel CSVData processing/conversion: wrote Python scripts to convert CSV into iOS-compatible P-listsUI design: designed table layout and button controls to be minimalistic and visually elegant but also straightforward and intuitive	SEP.–NOV. 2014
	rex: L^AT_EX résumé templat_{er} https://github.com/kwshi/rex <ul style="list-style-type: none">Developed templating tool to conveniently generate L^AT_EX résumé documents from content-focused resume data files based on customizable theme templatesGenerated this résumé using rex Relevant tools (Python): <ul style="list-style-type: none">Jinja2: templating engineTOML, StrictYAML: data file parsing	DEC. 2017–
RESEARCH	Yale Summer Program in Astrophysics (YSPA) (New Haven, CT) <ul style="list-style-type: none">Undertook college-equivalent coursework in astronomical physics (astronomy, orbital mechanics)Collected and analyzed data on asteroid “1999ML” to predict potential future collisions with Earth Relevant skills: <ul style="list-style-type: none">Astronomical data collection: operated computerized telescope to collect image dataData analysis: performed image reduction and star detection using Python NumPy, SciPy, AstroPy librariesData modeling: used basic genetic algorithms to “evolve” preliminary orbit parameters (obtained using Gauss and Lagrange methods) to fit observed dataNumerical integration: implemented numerical integrators (RK4) and used Python REBOUND library to simulate asteroid orbits and predict potential Earth collisions	JUL.–AUG. 2016
LEADERSHIP	Unpaid tutoring <ul style="list-style-type: none">Volunteered to tutor high school peers in physics, economics, and math Accomplishments: <ul style="list-style-type: none">Significantly improved a near-failing senior’s grades (10th grade)Helped a junior struggling in math score a 5 on the AP Calculus AB test (11th grade)	2015–PRESENT
	VEX robotics competition (High school) <ul style="list-style-type: none">Collaborated with team of three to devise and implement robot designSpearheaded programming for robot remote-control and autonomous algorithmsPlaced third in Livermore regionals competition (2017)	SEP. 2016–FEB. 2017
ACHIEVEMENTS	U.S. National Physics Olympiad Gold medal	APR. 2016, 2017
	International Physics Olympiad (Yogyakarta, Indonesia) Gold medal; U.S. traveling team of five	JUL. 2017
	ACM Intercollegiate Programming Competition (ICPC) (Riverside, CA) Southern California regional competition; team of three placed 11 th among 105	Nov. 2017