Seraph Yang

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Education

Valley Christian High School – 4.74 GPA   2025
- **College-level Coursework:** AP Calculus BC, AP Human Geography, AP Music Theory, AP Chemistry, AP Physics 1, AP U.S. History, AP Spanish Language and Culture, AP Psychology, AP Language and Composition, Honors Multivariable Calculus, AP Physics C, AP Environmental Science, AP Literature and Composition, AP Microeconomics, AP U.S. Government and Politics, Honors Linear Algebra

Stanford Online High School   2025
- **College-level Coursework:** AP Computer Science A (OCS15), Data Structures and Algorithms in Java (OCS25), Advanced Topics in CS: Computer Systems (OCS35)

SAT – 1510/1600   2024

Experience

Research Intern, Stanford AIMI Center – Stanford, CA   2024 – Present
- Classified and parsed patient reports and metadata using natural language processing to label chest X-rays with four types of pneumonia
- Wrote a machine learning algorithm to predict chest X-rays and classify them with their corresponding lung disease

Director of Technology, The Young Expressionists – San Jose, CA   2024 – Present
- Developed new website for nonprofit general information and class scheduling
- Filed for California nonprofit status through State of Secretary website

Frontend Developer, VC Assist – San Jose, CA   2024 – Present
- Wrote documentation for app features and solved a myriad of frontend tasks during weekly meetings
- Implemented auth0 login to the web application

Mechanical Engineer, CarbonQuestX – San Jose, CA   2021 – 2024
- Assembled and soldered electronics and various components for implementation of reaction module
- Wrote daily meeting notes and researched new heating elements and tanks to improve efficiency electrolysis of water
- Placed top 100 as the only high school student team out of over 1300 teams

Projects

StudyAP   studyap.org
- Founded a not-for-profit organization which creates AP-style practice problems using generative artificial intelligence
- Delegated tasks to developers and received mentorship from Nathan Lord, System Software Lead at Humane
- Tested by 100+ users

Y86 Simulator   github.com/seraph-yang/y86
- Wrote a Y86 simulator which assembles and processes C and machine code
- Written in Java and displays assembler components through a graphical user interface

Skills

Languages: Python, Java, C/C++, JavaScript, TypeScript, HTML/CSS, LaTeX
Frameworks: React, Vite, NextJS, Astro, SvelteKit
Developer Tools: Visual Studio, PyCharm, IntelliJ, GitHub
Libraries: pandas, NumPy, Matplotlib, Tensorflow, seaborn, PyTorch, Radgraph

Volunteer & Interests

Volunteer: 77.50 for school hours, 250+ outside of school hours
Interests: web development, research, AI, 3D modeling, piano, art