# **Spencer Ye**

(415) 317 9276 ~ Sunnyvale, CA ~ spencerye.com ~ contact@spencerye.com ~ linkedin.com/in/spencerye

#### EDUCATION

Johns Hopkins University   4.0/4.0 GPA	May 2027, Baltimore, MD
- Bachelor of Science in Computer Science; Applied Math Minor	
- Relevant Coursework: Parallel Computing for Data Science, Algorithms, Artificial Intelligence, Data Structures	
Homestead High School   4.0/4.0 GPA	June 2023, Cupertino, CA
- Valedictorian, Student-Athlete of the Year, 4-Season Track & Cross Country Captain	
WORK EXPERIENCE	
Software Engineering Intern   Piotech Inc.	July 2024 - August 2024
- Identified inefficiencies in retrieval of manufacturing activity data by analyzing C++ code with gdb	
- Crafted and implemented optimizations leading to 18% performance improvement in runtime data retrieval	
- Initiated and built prototype for the company's first Monkey Testing System (MTS) using Python	
- Documented the MTS framework to enable seamless development by future teams, ensuring project continuity	
- Improved accuracy, clarity, and professionalism of technical presentations by inter team collaboration	
Founding Engineer   Kalea Studio	June 2023 - June 2024
- Designed and developed e-commerce website, reaching 2,500+ visitors, using JavaScript, CSS, and HTML	
- Pitched to investors securing \$3,000+ in funding for development of 20+ new products	
Student Researcher   Aspiring Scholars Directed Research Program	March 2022 - June 2023
<ul> <li>Built machine learning models and performed hyperparameter tuning that classified 100,000+ molecules as natural or synthetic with near 90% accuracy</li> </ul>	
- Developed visualization figures that contributed to a preprint paper with 340+ downlo	ads using Matplotlib [Link]
PROJECTS	

#### 24 Game Solver [GitHub]: Automatic '24' solver for online game rooms

- Developed an algorithm to categorize hands as solvable or not with 99.7% accuracy
- Won first place on the International July 2024 leaderboard on 4nums.com, avoided all anti-bot countermeasures
- Developed with Python, using libraries Pyautogui, OpenCV, Selenium

Zoom Attendance Tracker [GitHub]: Online classroom attendance and participation tracking tool

- Used by local high school teachers to assess scores for 300+ students
- Developed with Python
- Charity Search Engine [GitHub]: Donation social media site that streamlines the donation process
  - Won "Best New Venture Hack" out of 200+ participants at HopHacks 2024
  - Developed with JavaScript, CSS using Bootstrap, HTML

# OTHER INVOLVEMENT

#### Varsity Track & Field

- USA Track Coaches Committee All-Region & All-Conference Second-Team honors

# Association of Computing Machinery (ACM) Executive Board Member

- Co-directed Regional ICPC tournament with 200+ total attendees in a team of 6

# SKILLS

Languages | C / C++ (Win32, GDB), Python (PyTesseract, OpenCV, Pillow, Selenium, Pyautogui), OCaml Web Technologies | JavaScript / TypeScript (React, JQuery, Hono, Vite), CSS (Bootstrap), SQL (SQLite) Dev Tools | Git, Linux (Ubuntu), Jupyter Notebook, npm, Docker