Alex Shane

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EDUCATION

Johns Hopkins University   Baltimore, Maryland
BS Computer Science   Expected May 2026
Minors: Applied Math, Financial Economics
Cumulative GPA: 3.9 | Dean's List | Student Athlete (Baseball)
Relevant Coursework: Data Structures, cs50AI (Harvard), Computer System Fundamentals, Full Stack JavaScript, Probability

SKILLS

Computer Languages (ranked by proficiency): Java, Python, C++, C, JavaScript, HTML, CSS, R, SQL
Frameworks: Flask, React, Next.js
Experience with Data Structures, Algorithms, AI, Object Oriented Programming, web development, memory allocation
Certified in Bloomberg Market Concepts, skilled in Word, Excel, PowerPoint, and Google Workspace applications

EXPERIENCE

Creator/Software Engineer   Los Angeles, CA
[Knight Investor](#)   May 2023 – August 2023
- Developed and implemented dynamic stock market report generator using Python and Flask framework, integrating YFinance API to fetch accurate, current data on more than 5,000 stocks
- Utilized HTML, CSS, JavaScript for web design and functionality with over 100+ commits in GitHub repository

Junior Programmer (Intern)   Sunland, CA
Pronk Technologies   June 2023 – August 2023
- Automated calibration tests for company products using Arduino software, decreasing each test by 10 seconds
- Increased efficiency of 12 pressure flows by fixing bugs related to button state handling and debounce delays

Creator and Software Engineer   Los Angeles, CA
Tree Buddy App   November 2019 – October 2021
- Designed a desktop application using with Java and SQL, allowed users to view 5 key characteristics of local trees
- Connected to cloud-hosted (AWS) database of 2100 trees, authorized users could edit through app
- Won Honorable Mention at Congressional App Challenge 2020

LEADERSHIP

Technology and Healthcare Consultant   Baltimore, MD
Cobalt Consulting Group (JHU affiliated club)   December 2022 – Present
- Conducted 8-week rigorous analysis on anti-coagulation market for a firm interested in algorithmic Warfarin dosing
- Revamped group's website, implementing Wix, HTML, and JavaScript to modernize site and attract future clients

Co-Chair/Tutor in CS, Math, Chemistry, and Physics   Studio City, CA
Peer Tutors – Harvard Westlake High School   February 2020 – May 2022
- Logged most hours in program in Junior year, improved chemistry student's grade by whole letter grade in 3 months
- Created Instagram account to grow popularity and increase membership within school

Senior Pod Leader   Studio City, CA.
Peer Support – Harvard Westlake High School   October 2019 – May 2022
- Facilitated a weekly safe space for students to share any issues without adult supervision and with full confidentiality
- Selected by peers to mentor a subgroup of 35 students within biggest club on campus (600 students)

ACHIEVEMENTS

- Awarded first team all-conference and second team all-region as freshman at JHU, team finished national runner up
- Graduated Cum Laude (top 20%) from high school
- Guided HS baseball team to 2021 California state championship, named first team all-conference as a senior