

Alex Shane

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EDUCATION

Johns Hopkins University

Baltimore, Maryland

BS

Expected May 2026

Cumulative GPA: 3.9 | Dean's List

Major: Computer Science | Minors: Applied Mathematics and Statistics, Financial Economics

Relevant Coursework: Data Structures, C and C++, Computer System Fundamentals, Full Stack JavaScript, Multi Var Calc

Harvard Westlake High School

Studio City, CA

GPA: 4.55 | ACT: 34 | Cum Laude | AP Scholar with Honors | Honor Roll

June 2022

EXPERIENCE

Creator/Software Engineer

Los Angeles, CA

Knight Investor

May 2023 – Present

- 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

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

Creator and Head 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

Computer Languages (ranked by proficiency): Java, Python, C++, C, JavaScript, HTML, CSS, R, SQL

LEADERSHIP

Co-Chair/Tutor in CS, Math, Science

Studio City, CA

Peer Tutors – Harvard Westlake

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

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)

ADDITIONAL INFORMATION

- Student athlete (baseball) at Johns Hopkins University, previously led HS to California state championship in 2021
- Awarded first team all-conference and second team all-region, team finished national runner up as a freshman
- Certified in Bloomberg Market Concepts, skilled in Word, Excel, PowerPoint, and Google Workspace applications