

# Alexander Shane

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## EDUCATION

### Johns Hopkins University (JHU) – Whiting School of Engineering

Baltimore, Maryland

*BS in Computer Science, Economics*

Expected May 2026

Cumulative GPA: 3.9/4.0 | Student-Athlete (Baseball) | Dean's List

Relevant Coursework: Data Structures, cs50AI (Harvard), Full Stack JavaScript, Calc III, Micro/Macro Econ, Financial Accounting

## EXPERIENCE

### Software Engineer/Researcher

Baltimore, MD

Baltimore Orioles

September 2023 – Present

- Employed xgboost machine learning models in Python to predict baseball MVPs
- Obtained 50% testing accuracy, 100% in-sample accuracy, and correctly predicted 2023 NL MVP using classifier model
- Published by the JHU news center, the Hub: <https://hub.jhu.edu/2023/11/15/ai-analysis-mlb-mvps/>

### SWE intern

Sunland, CA

Pronk Technologies

June 2023 – August 2023

- Decreased calibration test time for FlowTrax® pressure sensor by 33% (10 seconds) using Arduino software
- Enhanced the efficiency of test apparatus by optimizing state handling and debounce delays, resulting in faster transmission of pressure from valve opening to sensor detection

### 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 market data
- Utilized HTML, CSS, JavaScript for web design and functionality

### Creator and Software Engineer

Los Angeles, CA

Tree Buddy App

November 2019 – October 2021

- Designed a desktop application using with Java and SQL; enabled users to view 5 key characteristics of local trees
- Connected to cloud-hosted (AWS) database of 2100 trees; authorized users could edit through app

## LEADERSHIP

### Technology and Healthcare Consultant

Baltimore, MD

Cobalt Consulting Group (JHU affiliated club)

December 2022 – Present

- Conducted 8-week market analysis on anti-coagulation market for firm interested in algorithmic Warfarin dosing
- Revamped group's website, implementing Wix, HTML, and JavaScript to modernize site and attract future clients

### Baseball Representative

Baltimore, MD

Student Athlete Advisory Committee

September 2022 – Present

- Serve as a liaison between athletes and administration to communicate and proactively work towards feasible solutions for challenges facing athletes
- Plan/host community service events as well as events tailored for student athletes to increase school spirit

## TECHNICAL SKILLS

- Computer Languages: Java, Python, JavaScript (+TypeScript), C++, C, HTML, CSS, Linux, R, SQL
- Frameworks/Tools: Flask, React, Next.js, Git
- Certified in Bloomberg Market Concepts; skilled in Word, Excel, PowerPoint, and Google Workspace applications

## ACHIEVEMENTS

- Awarded first team all-conference and second team all-region as freshman at JHU; team finished national runner up
- Graduated Cum Laude from Harvard-Westlake High School (Los Angeles, CA)
- Won Honorable Mention at Congressional App Challenge 2020 for Tree Buddy App

## INTERESTS

- Premier League soccer, F1, MLB, College Baseball/Football, TV (Succession, Billions), and hiking