

## EDUCATION

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- **Indian Springs School** Pelham, Alabama  
*High School Diploma* *Aug. 2022 – Apr. 2026*
  - **SAT:** 1540/1600 (750 RW, 790 M)
  - **Extracurricular Involvement:** Scholar's Bowl Team Captain; "Woodward Post" (School Newspaper) Head Web Editor, Writer, and Editor; Investment Club Founder and President; "Jew Crew" President; HOSA Officer; Science Olympiad Member
  - **AP (Advanced Placement) Course-load:** Total APs (4y): 15 | Scored 5's: 5 | Scored 4's: 4 | In progress (Taking this year, no score yet): 6

## EXPERIENCE

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- **Zenith Legal** Washington, DC  
*Legal Recruiting Helper/Intern* *Aug. 2025 – Dec. 2025*
  - **Focus:** Finding candidates for legal placement
  - **Candidate Sourcing:** Researched attorney candidates for firm placements through web scraping and database analysis. Wrote and memorized "sales pitch" for convincing candidates.
  - **Professional communication:** Made countless cold calls, emails to lawyers and law school students. Discussed recruiting via phone / zoom conversation. Attended and presented in daily meetings.
  - **Tech work:** Worked on maintaining app and website. Helped with CRM development.
- **Krishnan Group Laboratory, University of Chicago** Chicago, Illinois  
*Summer Research Intern* *May 2024 – Aug. 2025*
  - **Focus:** Research on ion transporters involved in neurodegenerative and inflammatory disease. Interned during summer of 2024 and 2025.
  - **Lab Work:** Maintained and performed experiments on *C. elegans* (RNAi KO and KD), maintained neural cell cultures, microscopy-based phenotypic assays, flow cytometry, patch clamp ephys, and general wetlab procedures under BSL-2 protocols.
  - **Work Ethic:** Asst. postdoc and PhD candidate researchers with experiments, execution, and troubleshooting; worked long hours and weekends whenever needed. Lived entirely on my own for two summers.
  - **Scientific Practice:** Independently studied primary literature to support experimental work; maintained detailed lab notebooks documenting protocols, observations, and results; attended  $\approx 15$  seminars, professional talks, and thesis defenses.

## PROJECTS

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- **Sports Betting Arbitrage Bot (2021):** Significant profit before permaban and legal threats. Built a bot that scraped offshore bookie lines (using BS/selenium, this was before the days of fast enough OCR), calculated arbitrage opportunities + Kelly calculation, also looked for EV bets, and automated betting on lines.
- **Tau.ai (2023/2024):** Led a team of high school students in building a CV-based eye tracker to help diagnose early Alzheimer's disease. Semifinalist in both the Conrad Challenge and Diamond Competition. See [project website](#) and [demo videos](#) for more information.
- **Bioinformatic Analysis Of PTSD and Alzheimer's (2024/2025):** Author of Research Paper analyzing common DEGs between PTSD and Alzheimer's Disease. Currently under review for publication.
- **Attempted Novel Alzheimer's Treatment (2024/2025):** Theorized novel avenue for stopping neuronal degradation in Alzheimer's Disease, screened 500+ compounds via molecular docking simulation against various receptors, created custom rating algorithm for determining best. Then tested the best candidate in-vitro, where it moderately improved cell viability. Unfortunately, later learned that the compound screened was under a class of patented Cyclophillin D inhibitors from about 5 years ago.
- **Synthesize (2025):** Chrome extension built to induce grapheme-color synesthesia by coloring text on websites
- **Gun Violence Survivors Aid (2022):** Website offering resources for victims of gun violence (no longer being maintained since 2023).

## AWARDS

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- **National Merit Scholarship Semifinalist:** Top 1% of high school seniors
- **AP Scholar with Distinction:** Highest AP-based award.
- **Wharton Investment Competition:** Led team of classmates in mock-investing challenge. Placed top 100 (monetarily) out of  $\approx 5000$  teams. Did NOT achieve semifinalist status.
- **ISEF Regeneron Biomedical Sciences Award:** Won \$375 for attempted Alzheimer's treatment
- **HOSA Pharmacy Science International Finalist + Regional and State Champion:** Studied Pharmacology to compete in medical skills competition.
- **HOSA Pharmacy Science Mastery:** Scored  $>75\%$  of all possible points on Pharmacy Science Exam
- **Conrad Challenge Innovator Award:** Won for "Tau.ai"
- **Global Seal of Biliteracy:** Working Fluency in Spanish

## SKILLS

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- **Software:** AutoDock Vina, GROMACS, Schrödinger, InCyte, Qlucore, Snapgene, AddGene, AutoCAD, Figma, Adobe Photoshop, Adobe Illustrator
- **Lab-based:** BSL-1/2 safety, cell culturing, *C. elegans* maintenance, flow cytometry, electrophysiology, ELISA, centrifugation, autoclaving, data analysis, report writing
- **Language Knowledge Matrix:**

	<b>Programming</b>	<b>Human</b>
<b>Proficient</b>	R (Bioconductor, EdgeR, clusterProfiler), Python (NumPy, Pandas, Matplotlib, PyTorch)	English
<b>Comfortable</b>	Java, L <sup>A</sup> T <sub>E</sub> X	Spanish
<b>Decent</b>	AutoHotKey, HTML, CSS	American Sign Language (ASL)

## LICENSES AND CERTIFICATIONS

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- **Pharmacy Technician License:** State of Alabama, Alabama Board of Pharmacy
- **Forklift Operator Certification:** United States, OSHA
- **Private Marine Vessel Operator:** United States, BoatUS

## INDEPENDENT LEARNING

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- **Johns Hopkins Center for Talented Youth (CTY):** Mathematics of Volatile Markets, Microeconomics
- **Student Institute for the Gifted (SIG):** Genetic Engineering, Astronomy
- **Centre for Effective Altruism:** Intro to Effective Altruism
- **Brown Pre-College:** Habitable Worlds: Possible Places for Life in the Solar System and Beyond
- **Khan Academy:** Numerous courses completed; 393,480 "Energy Points"