

# Drake Hayes

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## EDUCATION

- **Wabash College** Crawfordsville, IN
  - BA: Majors in Mathematics and Computer Science, Minor in Religion August 2020-May 2024
  - **GPA:** 3.98
  - **Relevant Coursework:** Intro to Computer Science, Data Structures, Theory of Programming Languages, Operating Systems, Algorithms, Machine Organization, Image Processing, Retrocomputing, Linear Algebra, Abstract Algebra, Real Analysis, Topology, Multivariable Calculus, Mathematical Finance, Combinatorics, Number Theory
- **Crawfordsville High School** Crawfordsville, IN
  - Core 40 with Academic Honors August 2016-May 2020
  - **GPA:** 4.55
- **Budapest Semesters in Mathematics** Budapest, Hungary
  - Study Abroad Fall 2022

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## PROFESSIONAL EXPERIENCE

- **Self-Employed Math Tutor** October 2021 - Present
  - Crawfordsville, IN
  - Tutoring two high school students and three college students in algebra, geometry, and calculus
  - Providing study sheets and practice problems to help students prepare for their assessments
  - Observing students improve their homework and exam grades from C's to A's and B's.
- **Computer Science Research Intern** June 2022 - August 2022
  - University of Houston, Houston, TX
  - Researched the gender and racial biases pervading modern facial recognition technology
  - Scraped the National Institute of Standards and Technology's database of people's front profiles for pictures of people from a range of backgrounds
  - Utilized photo editing software to perform 135 distortions on 60 unique images
- **Mathematics Research Intern** May 2021 - July 2021
  - Wabash College, Crawfordsville, IN
  - Collaborated with a team of peers to research the different possible outcomes of two combinatorial games grounded in group theory
  - Formulated four theorems describing which player has a winning strategy for stacked prism graphs
  - Developed stronger public speaking skills through giving weekly progress-report presentations

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## HONORS AND AWARDS

- **Wabash President's Scholarship:** Highest merit scholarship awarded by Wabash College
- **Harriet Taylor Allen Scholarship:** Merit scholarship awarded by the Montgomery County Community Foundation
- **Wabash Lilly Finalist Award:**
- **Dean's List:** All semesters

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## SKILLS AND ACTIVITIES

- **Technical Skills:** Proficiency in Python, Java, C, and Wolfram|Alpha; Working knowledge of MATLAB and 64-bit ARM Assembly; Elementary experience in the design process and basic engineering principles
- **Phi Gamma Delta Fraternity:** Social fraternity which emphasizes academic excellence and community involvement; development of stronger networking and time-management skills
- **Cross Country and Track and Field:** Varsity member of the cross country and track and field teams; development of proper goal-setting skills and healthy visualizations of success