

Zachary Thomas

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I am a student interested in helping others through innovative and ethical research in technology.

EDUCATION

Spring Hill College, Mobile, AL

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics

Minor: Philosophy

Cumulative GPA: 3.91

Anticipated Graduation Date: May 2026

SKILLS

Python, C, Racket, G-Code, Git/GitHub, LaTeX, Linux,

Pandas, NumPy, Matplotlib, Seaborn, Selenium,

Excel/Sheets, PowerPoint/Slides, Word/Docs

EXPERIENCE

The University of Texas at Austin | Summer 2025

NHERI DesignSafe Undergraduate Researcher

<https://doi.org/10.17603/ds2-fh5q-qx48>

- Developed engineering research in natural hazards mitigation technology
- Worked on a real-time simulation of a robotic arm in a Gaussian Splatted environment, which utilized LLMs and high-performance computers at the Texas Advanced Computing Center
- REU funded by the National Science Foundation

Case Western Reserve University | Summer 2024

HAMMER ERC Undergraduate Researcher

- Helped solve computer science and engineering-based problems in wire arc additive manufacturing(WAAM) technology
- Worked with a small team to build a WAAM 3D Printer, configure its firmware, and develop a G-Code Parser for proper slicing and printing
- REU funded by the National Science Foundation

SHC TRIO Student Support Services | 2023-20XX

Lead Peer Tutor

- Tutor first-generation and low-income college students in various subjects such as Mathematics, Computer Science, Philosophy, and Writing

SHC Department of Computer Science | 2025-20XX

Teaching Assistant

- Assist my professors with their courses
- Help the students gain a better understanding of the coursework

PROJECTS

<https://github.com/GitHubZac12>

LEADERSHIP

Computer Science Club

Spring Hill College Chapter Founder and President

- Help members become career/graduate school-ready for fields in Computer Science

GreenKeepers - Environmental Honor Society

Spring Hill College Chapter President

- Reconstructed the dying program by recruiting a team of capable leaders

Alpha Sigma Nu - The Jesuit Honor Society

Spring Hill College Chapter President

- Manage funding for the chapter

Student Government Association

Spring Hill College Secretary of Campus Life

- Helped voice the concerns of the student body

The National Society of Leadership and Success

Spring Hill College Chapter President

- Certificates in Foundations of Leadership
- Developed a team that educates chapter members on how to become more successful leaders

Spring Hill College Esports

Rocket League Team Captain

- Manage and stream competitions/practices

HONORS & AWARDS

Spring Hill College

- President's Award in Computer Science
- President's Award in Mathematics
- Houssiere Award in Mathematics
- Hutchinson Award in Philosophy
- Honors Program
- Dean's List (All Semesters)
- NCAA Division II XC, T&F, Esports
- NCAA Division II All-Academic Teams
- CSC Academic All-District Athlete
- Published in SHC's Peace and Justice Magazine
- Study Abroad - Spring Hill College Italy Center
- SHC Italy Center Social Justice Award
- NSLS Impact Leader Award
- Black Student Union Ally Award