

THOMAS GRAHAM FISHER II

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EDUCATION

University of Notre Dame (Notre Dame, IN)

Bachelor of Science, Computer Science and Honors Mathematics

May 2022

GPA: 3.98

SOFTWARE EXPERIENCE

Learning Management Systems Developer - Notre Dame Office of IT

Sep 2019 - Present

- Refactored previous students' D3.js based web app - added more consistency in 500 fewer lines (JavaScript)
- Created macOS app to concatenate PDFs to streamline Professor's grading process (AppleScript)
- Currently preparing previous students' economics simulation for classroom use (PHP, JS, SQL)

Computational Methods for Discovery Driven by Big Data REU

Jun 2019 - Aug 2019

- Implemented a novel redirected walking algorithm to allow efficient and natural virtual locomotion in complex physical environments. Processed data in Python; imported and used result in C# algorithms for Unity
- Worked in the Illusioneering Lab at the University of Minnesota under the direction of Evan Suma Rosenberg
- Presented poster at the University of Minnesota's Summer Undergraduate Research Expo
- Completed "Big Data Bootcamp" using materials from the Fall 2016 Data 8 course at UC Berkeley (Python)

2019 Hesburgh Libraries Hackathon

Mar 2019

- Collaborated with 3 others in a 3-day hackathon to build a web app (jQuery, Bootstrap)
- Created Napingo, a platform via which users can find and share nap spots around campus
- Awarded Honorable Mention for final product

Modularization Project Lead - Robotic Football Club

Sep 2018 - Present

- Collaborate with fellow engineers to design, build, program, and repair more than a dozen robots to "play" football; robots are controlled by club members in a game very similar to American football
- Lead team of 15 to organize and enforce best programming practices on existing robot drive code (Python)

OTHER EXPERIENCE

Senior Event Assistant - Notre Dame Student Activities Office

Sep 2018 - Present

- Prepare and disassemble various venues for student events around campus
- Monitor ongoing student events for audiences up to hundreds of students and ensure their smooth course
- Coordinate shifts, lead small group of 7 coworkers, and serve as first contact for any issues during events

Global Scholars Research Project - Park Tudor High School

Aug 2016 - Apr 2018

- Completed a two-year research project investigating the United States recent shortage of STEM professionals and the United States relative shortcomings in STEM education when compared globally
- Enlisted the guidance of a mentor, wrote a 60-page research paper on the aforementioned topic, and presented my findings to a panel of judges

SERVICE

Weekly Tutoring at St. Adalbert's Elementary School

Sep 2018 - Present

Northside Ministries Food Pantry and Community Garden Volunteering (200 hours)

Apr 2017 - Apr 2018

TECHNICAL SKILLS

Proficient: Java, Python, LaTeX, Verilog, JavaScript *Basic:* Unity, Arduino, MATLAB, C++, PHP, SQL

HONORS

Honorable Mention - 2019 Hesburgh Libraries Hackathon

Mar 2019

Virginia A. Smith Highest Academic Award (Valedictorian Equivalent)

May 2018

National Merit Finalist

Feb 2018

ACTIVITIES

Math Club

CS For Good Club

Fisher Interhall Sports (Baseball and Dodgeball)