

Caleb M. Powell

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PROFILE

Physics and Computational Mathematics major with a minor in Computer Science. Seeking opportunities to expand knowledge through a master's degree in Computer Science.

EDUCATION

B.A. Physics & Computational Mathematics: Wabash College, Crawfordsville, IN.

May 2022

Minor: Computer Science

Technical Skills: Python, Java, C, HTML, JavaScript, CSS, SolidWorks, Adobe Photoshop, LaTeX, Mathematica, and Jupyter Notebook. Certification in Autodesk Revit Architectural Software, and AutoCAD Drafting Software.

Relevant Coursework: Introduction to Programming, Intro to Data Structures, Theory of Programming Languages, Algorithm Design and Analysis, Operating Systems, Elementary Linear Algebra, Abstract Algebra I, and Combinatorics.

PROFESSIONAL EXPERIENCE

Physics Research, Dr. Nathan Tompkins, Crawfordsville, IN ([GitHub](#))

August 2020 – Current

- Simulated the growth pattern of “brinicles” through python point-model simulations
- Continuing the engineering of brinicle growth tanks to generate lab data to improve simulations

Web Development, TechPoint, Indianapolis, IN ([Weblink](#))([GitHub](#))

June 2020 – July 2020

- Improved teamwork strategies through development and marketing of a web product designed
- Completed a five-week “S.O.S. Challenge” while developing HTML, JavaScript, and CSS skills

Physics Quantitative Skills Center, Crawfordsville, IN

August 2020 - Present

- Assisted in the academic development for all physics students at Wabash College through tutoring and homework assistance in available physics courses

Education Technology Center, Crawfordsville, IN

August 2019 - Present

- Supports students in the use of technology equipment in the Wabash College Lilly Library
- Enhances Skills in Photoshop through development of a variety event posters

Supplemental Instructure, Crawfordsville, IN

August 2020 – November 2020

- Assisted in the academic development for all students in PHY-109 (Algebra Physics) through attending lectures, creating lesson plans, and providing tutoring to students.

PROFESSIONAL DEVELOPMENT

Computer Science Club President, Crawfordsville, IN

August 2021 – May 2022

- Helped found a first-year club at Wabash College and led it to gross almost 60 members
- Managed a club that participates in several events such as student-led teaching workshops, “hackathons”, guest speaker colloquiums, web-design teams, and graphics teams
- Formed an official chapter of the Association of Computing Machinery (ACM)

Society of Physics Students (SPS) Vice President, Crawfordsville, IN August 2021 – May 2022

- Assisted in the process of development of 3D printed air-filters for individual classrooms
- Helped form a larger community of students within the physics department at Wabash College
- Promoted interest in physics amongst local elementary school students through demonstration of basic physics concepts in fun and interactive ways.

3D Modeling, Thomas Pavia, Princeton, NJ September 2020 - October 2020

- Designed 3D models of a patented exercise equipment for market production.
- Improved skills in Autodesk Revit 3D design

ACTIVITIES

3D Printing Club Member, Crawfordsville, IN August 2019 – May 2022

- Participated in related club activities such as design competitions
- Improved 3D Printing methods and knowledge of SolidWorks 3D Modeling Software

Math Club Member, Crawfordsville, IN August 2020 – May 2022

- Participated in related club activities such as weekly meeting and computational competition
- Assisted in the promotion of upcoming event information.

Wrestler, Wabash College & Hillgrove High School August 2015-Present

- NCAA DIII Wrestling National Duals (4th Place), NCAA DIII Wrestling National Duals (4th), GHSA Individual Wrestling State Champion