

Rawan Hamad Shehayib

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EDUCATION

University of Notre Dame | Notre Dame, IN

GPA: 3.73+

May 2028

Major: Computer Engineering | Mary E. Galvin Science and Engineering Scholars program | Transformational Leadership program

EXPERIENCE

MetoyerLab in Human-Computer Interaction | Notre Dame, IN

Jan 2025 – Present

Undergraduate Research Assistant

- Conduct research on AI-driven tools to support teachers in lesson planning and student engagement
- Researched AI applications for enhancing students' close reading skills

Couder's group at the Nuclear Science Laboratory | Notre Dame, IN

Oct 2024 – Present

Undergraduate Research Assistant

- Assisted with developing altering an existing Python code to automate input for large-scale calculations
- Analyzed ways to modify atomic cross sections to match experimental data and implement new energy ranges

NAFDA | Aley, Lebanon

Oct 2022 – May 2024

Tutor and Project Manager

- Transformed technology into an accessible tool for 300+ students nationally through Python and WordPress tutoring
- Followed up with students on their website and business projects (30+ website projects)

LEADERSHIP AND ACTIVITIES

IrishSat | Notre Dame, IN

Sep 2024 – Present

Media Team leader

- Coordinated website editing and content update, ensuring accessibility and UI/UX elements
- Managed social media platforms and newsletters regular updates

IrishSat | Notre Dame, IN

Sep 2024 – Present

Computing and Controls team member

- Collaborated to integrate Vector Navigation SDK on a Raspberry Pi, implementing hardware interface for troubleshooting
- Compared Canny and Sobel edge detection algorithms using a Python code with the OpenCV library to develop a program for Horizon detection using Image Processing
- Developed a 1D magnetorquer test and a GUI for visualizing and analyzing rotation on one-axis
- Researched methods of implementing Convolutional Neural Network for image processing edge detection methods

All Girls Code | Beirut, Lebanon

Sep 2022 – Aug 2024

Design Intern

- Designed social media campaigns, Power Points, and reports received the "Golden Intern award"
- Delivered presentation with 200+ attendees, collaborated with a team of 59 individuals

RELATED COURSEWORK OR PROJECTS

Intro to Embedded Systems | University of Notre Dame

Spring 2025

- Developed a user-interactive obstacle game using Arduino C with a team

Engineering Computing | University of Notre Dame

Spring 2025

- Developed a MATLAB app to analyze data from a data set with 10,000+ data points about movies with a team

Engineering Design | University of Notre Dame

Fall 2024

- Developed 3D modeling of a sensor housing with an opening/closing mechanism to monitor outdoor air quality with a team

Learning Programming via Algorithmic Music Making and Beyond | Blacksburg, Virginia Tech

July 2023

- Developed an interactive website that associated letters with short songs to facilitate the alphabet learning for kids

TECHNICAL AND LANGUAGE SKILLS

Technical: Python, JavaScript, MATLAB, Arduino C, HTML, CSS, Bootstrap

Language: Arabic (Native), English (Native), French (Basic)