Ryan Nahm

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EDUCATION

University of Notre Dame | Notre Dame, IN   Graduation May 2026
Bachelor of Science   *GPA: 3.705*
Major: Computer Engineering

TECHNICAL AND LANGUAGE SKILLS

Technical: Linux, Git, REST API, C, Python, Shell Scripting, RISC-V, Valgrind, Inventory Management, OSHA Compliance, CPR, Microsoft Office, Circuit Design, SQL,
Language: Spanish (conversational)
Awards: National Merit Scholarship Finalist - 2022

EXPERIENCE

Teaching and Learning Technologies at The University of Notre Dame | Remote   May 2023 – October 2023
Software Development Intern
- Optimized communication between Notre Dame's class scheduling software and the learning management system by creating protocols to identify redundant courses.
- Developed a script to reorganize individual user dashboards and promote proper course utilization.
- Designed a Python solution for removing unnecessary Canvas courses.

Appleton Area School District| Appleton, Wisconsin   May 2022 – August 2022
Summer IT Intern
- Maintained accurate inventory records by cataloging over 2200 items of new and existing technology.
- Imaged 750 new computers with the district image and installed necessary security software.
- Coordinated with team members to remove and replace over 1000 computers throughout the district.

Rec Sports Rock Wall | Notre Dame, Indiana   August 2023 – Present
Rock Wall Attendant
- Collaborated with team members to improve overall gym experience and set new routes.
- Conducted safety orientations with new visitors and maintained proper safety protocols.
- Taught proper belay techniques to new climbers during belay clinics.

Appleton Solar LLC | Appleton, Wisconsin   May 2023 – August 2023
PV Installer
- Worked with a team to install residential solar systems while maintaining OSHA compliance.

LEADERSHIP AND ACTIVITIES

Notre Dame Waterski Club | Notre Dame, Indiana   September 2022 – Present
Captain
- Recruited new members through outreach opportunities like club fairs and other demonstration sessions.
- Worked with other members to organize transportation to and from competitions and practices.

Climbing Club |Notre Dame, Indiana   April 2024 – Present
President
- Organized 20+ person club trips to Kentucky to increase access to outdoor climbing.
- Taught climbing ethics and Leave No Trace principles to promote stewardship of natural resources.
- Led climbing practices to introduce new members to the campus climbing community.
- Tracked practice attendance and dues payments using Python and the Google Sheets API.

RELATED COURSEWORK OR PROJECTS

Computer Architecture | University of Notre Dame   January 2024 – Present
- Converted C to RISC-V to better understand optimization techniques for C programming.
- Designed an ALU process simplified assembly language using HLS to output RTL instructions.

Systems Programming | University of Notre Dame   August 2023 – December 2023
- Created a shell-based malware detector to scan zip file directories.
- Explored Unix, system calls, networking, and concurrency.

Operating Systems Principles | University of Notre Dame   January 2023 – May 2023
- Studied the history of operating systems and different implementations of core functionality.
- Implemented several parts of an operating system including multithreaded processing, job scheduling, and I/O caching using the C language.