

Noah Thompson

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EDUCATION

University of Notre Dame | Notre Dame, IN

May 2027

Bachelor of Science

GPA: 3.50

Major: Computer Science | Minor: Sustainability

Notre Dame Alcoy Study Abroad Program | Alcoy, Spain

May - June 2024

Study Abroad Experience

- Traveled across Spain during a 6-week study abroad experience
- Completed coursework in Bridge Engineering and Probability & Statistics

EXPERIENCE

RelaxationPro | Kokomo, IN

January 2023 – June 2023

CEO

- Developed an e-commerce business specializing in health and wellness products
- Instituted the RelaxationPro website, where quick, easy, online transactions occurred
- Curated a quality selection of relaxation and self-care products, while collaborating with manufacturers to ensure a diverse and appealing inventory

Taylor High School | Kokomo, Indiana

January 2022 – Current

Youth Sports Referee

- Officiated youth basketball games, ensuring fair play and adherence to game rules and regulations
- Demonstrated strong decision-making skills in high-pressure situations to make accurate calls
- Fostered a safe and respectful environment, emphasizing sportsmanship and team spirit among participants

LEADERSHIP AND ACTIVITIES

Society of Latino Engineers and Scientists (SOLES) | South Bend, Indiana

August 2024– Present

- Participant in technical workshops, gaining exposure to industry-relevant skills and innovative engineering concepts.
- Network with Notre Dame alumni and professionals to expand connections and explore career development

Transformational Leaders Program | South Bend, Indiana

August 2023 – Present

- Participated in a cohort-based mentorship program focused on academic, professional, and leadership development for historically marginalized students, fostering a sense of community and personal growth.
- Engaged in personalized mentoring and community-building activities aimed at developing leadership skills, academic success strategies, and holistic well-being.

RELATED COURSEWORK OR PROJECTS

Systems Programming | University of Notre Dame

January - May 2025

- Developed low-level C programs involving process control, inter-process communication, and file I/O to deepen understanding of operating system fundamentals.

Data Structures | University of Notre Dame

January - May 2025

- Implemented fundamental data structures (linked lists, stacks, queues, trees, and hash tables) in C and Python and analyzed their time and space complexities.

Introduction to Artificial Intelligence | University of Notre Dame

August - December 2025

- Studied A* search, constraint satisfaction, adversarial search, and knowledge representation.
- Applied machine learning methods including decision trees, Markov models, Bayesian reasoning, and logistic regression.
- Implemented supervised and unsupervised learning techniques such as perceptrons, SVMs, KNNs, clustering, and dimensionality reduction.
- Built deep learning models including feedforward, convolutional, recurrent, and transformer-based networks.

Computer Architecture | University of Notre Dame

August - December 2025

- Studied processor organization, pipelining, memory hierarchies, and instruction set design using RISC-V with hands-on performance analysis.

Operating Systems | University of Notre Dame

August - December 2025

- Developed a heap management implementation with custom malloc using sbrk() and a freelist
- Developed a multi-core process queue shell, implementing FIFO and round robin scheduling strategies
- Developed a concurrent publish-subscribe messaging system using POSIX threads, enabling topic-based subscriptions, message publishing, and blocking retrieval for a real-time chat application.

TECHNICAL SKILLS

Technical: Python, Matlab, Matlab App Designer, C, Data Analysis, Data Visualization, Pandas, Matplotlib, Git, Github