

Noah Thompson

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EDUCATION

University of Notre Dame Notre Dame, IN	May 2027
<i>Bachelor of Science</i>	GPA: 3.50
Major: Computer Science Minor: Sustainability	
Notre Dame Alcoy Study Abroad Program Alcoy, Spain	May - June 2024
<i>Study Abroad Experience</i>	
▪ 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
<i>CEO</i>	
▪ 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
<i>Youth Sports Referee</i>	
▪ 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