

EDUCATION

University of Notre Dame Notre Dame, IN <i>Bachelor of Science</i> Computer Science and Engineering	Graduation May 2026 <i>GPA: 3.92 Dean's List</i>
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SKILLS

Technical: Python, C, C++, Java, HTML, CSS, Javascript, git, shell, pydantic, PyTorch, tensorflow, openCV, Jupyter, Solidworks, CAD, MATLAB
Language: English (fluent), Indonesian (fluent), Chinese (conversational)

RELATED COURSEWORK

Operating Systems Principles, Data Structures, Algorithms, Computer Architecture, Introduction to AI, Data Science, Computer Vision,

INTERNSHIPS/EXPERIENCE

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| KPMG Dallas, TX
<i>Enterprise Architecture Intern</i> <ul style="list-style-type: none">Modeled architecture patterns using SAP LeanIX, focusing on system integrations, API structures, and platform optimization.Prototyped AI agents by integrating LeanIX APIs with OpenAI, enabling programmatic querying and automated analysis of enterprise architecture data.Documented findings and presented recommendations to senior architects, demonstrating potential for automated decision support systems within enterprise platforms. | June 2025 – August 2025 |
| University of Notre Dame & Lockheed Martin Notre Dame, IN
<i>Machine Learning Engineer Intern</i> <ul style="list-style-type: none">Leading the development and testing of Autonomous Agent simulation models, leveraging predictive analytics and optimizing performance and reliability to further research initiatives.Spearheading the review and enhancement of existing code using LangChain and RAG, while creating robust environments to support efficient data processing and machine learning experimentation.Integrated the OpenAI API and structured output formats to enhance AI agents' reasoning and decision-making capabilities, improving their effectiveness and ability to provide clear, organized responses in search and rescue simulations. | September 2024 – Present |
| Yaskawa Kitakyushu, Japan
<i>Researcher</i> <ul style="list-style-type: none">Collaborated with a diverse team of Japanese university students and professors to develop and refine a calibration algorithm for a robotic arm used in robust conditions for microchip production.Performed rigorous testing, analysis, and iterative improvements to minimize error to less than 100 microns, significantly enhancing the precision and costs of the manufacturing process. | May 2024 – June 2024 |
| Kubota Tokyo, Japan
<i>Researcher</i> <ul style="list-style-type: none">Designed and programmed an autonomous control system for a tractor in C, implementing a PID controller to optimize real-time adjustments, allowing the tractor to correct its trajectory and maintain a straight path after moving on uneven terrain, greatly improving efficiency in agricultural tasks. | July 2024 - August 2024 |

PROJECTS AND ACTIVITIES

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| Object Tracking Robot University of Notre Dame
<i>Personal Project</i> <ul style="list-style-type: none">Designed and programmed a robot car to autonomously track specified objects using a U-Net Neural Network trained on a large dataset for object recognition.Utilized multithreading to achieve real-time object tracking, enabling parallel processing of video input and control logic so the robot could continuously recognize and follow objects using the trained model. | |
| Notre Dame Robotic Football University of Notre Dame
<i>Code Team Head & Secretary</i> <ul style="list-style-type: none">Leading the code team for competitive robotic football matches, managing and optimizing robot programs on Raspberry Pi to enhance movement precision, throwing accuracy, controls, and overall performance.Integrated computer vision techniques to detect and track targets in real-time with arUco markers, enabling the robot to make quick, precise throws under dynamic conditions. | August 2023 - Present |
| CS for Good University of Notre Dame
<i>Software Engineer</i> <ul style="list-style-type: none">Engineered and optimized a high-performance backend system using Django and Python, improving data retrieval speeds by 40% and reducing latency in user interactions.Designed and deployed a scalable database architecture with Django's ORM, enabling real-time progress tracking and analytics for 100+ students and educators. | August 2022 - Present |