Aaron Lewis

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EDUCATION

University of Notre Dame | Notre Dame, Indiana — Graduation May 2026
Bachelor of Science in Computer Science, Minor in Engineering Corporate Practice — *GPA: 3.96*
Dean's List 2022, 2023, 2024

University of Notre Dame | London, England — May – June 2023
Engineering Summer Study Abroad

WORK EXPERIENCE

Teaching Assistant | Notre Dame, Indiana — September 2024 – Present
Introduction to Computing

- Assisted students in understanding fundamental programming and computer science concepts in weekly office hours
- Graded and provided feedback on weekly assignments, ensuring clarity and understanding of course material

GoodLife Fitness | Glen Ellyn, Illinois (Remote) — June – August 2024
Intern Project

- Configured Microsoft Azure's Spatial Analysis Container to track equipment usage in gym video feeds
- Created Azure resource structure to utilize virtual machines as edge devices performing model computations
- Presented to the CIO of GoodLife Fitness on overall project results and viability

Village of Glen Ellyn Public Works Department | Glen Ellyn, Illinois — May – August 2022, 2023, 2024
Seasonal Worker

- Cataloged hundreds of water valves through the utilization of a metal detector to facilitate work in the winter season
- Guided four new seasonal workers through training of safely operating machinery to increase team productivity
- Addressed concerns with residents daily in a face to face and verbal manner to justify government work

COURSEWORK

Regular Expression Parser | Python — February – May 2024

- Overcame problems in the implementation of complex concepts through whiteboarding and research
- Iteratively improved pieces of code to achieve a desired time complexity for multiple regular expression operations

Assembly Doubly Linked List | RISC-V — February 2024

- Evaluated work with numerous test cases to verify correctness and accuracy
- Built functions in assembly to perform doubly linked list actions by utilizing a call stack

Constellation Model | Python (TensorFlow) — June 2023

- Led a team of four engineers in building a convolutional neural network with the ability to recognize constellations
- Refined weights and biases in three model structures to achieve the best results given time constraints

United States Drug Analysis Project | Python (Plotly), HTML, CSS, JSON, CSV — April – May 2023

- Allocated tasks between two team members to take advantage of technical strengths
- Processed data about drug seizures along US borders to extract valuable information, organizing it to our needs
- Developed a website that displays findings from data analysis of three key categories to inform policymakers

EXTRACURRICULAR ACTIVITIES

Notre Dame Video Game Development Club | Notre Dame, Indiana — August 2024 - Present

- Designed and implemented various 2D game mechanics using GDScript in Godot, enhancing game enjoyment
- Conducted playtesting and debugging sessions to identify and fix bugs, improving game stability and performance

Notre Dame Board Game Club | Notre Dame, Indiana — August 2024 - Present

- Actively participated in weekly game sessions, fostering a collaborative and engaging environment in a diverse group

Notre Dame Men's Rowing Team |Notre Dame, Indiana — August 2022 – February 2023

- Improved time management by balancing practice schedules averaging twelve hours a week with regular coursework
- Coached teammates on technical performance to promote the success of the team
- Expanded leadership and teamwork characteristics in a completely new and unique environment

TECHNICAL SKILLS

C, C#, C++, Python, Java, MATLAB, HTML, CSS, Docker, Linux, Git, Microsoft Azure, Excel, RISC-V, SOLIDWORKS