LUCAS HOLLIDAY

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EDUCATION

Northwestern University — Evanston, IL
Bachelor of Science in Computer Science (Concentration: Artificial Intelligence) — Expected June 2027
Bachelor of Science in Industrial Engineering and Management Sciences (Concentration: Data Science)
GPA: 4.0/4.0, High Honors Dean's List 5/5 quarters

SKILLS

Programming Languages: Python, Java, JavaScript, C/C++, Assembly, SQL, R, HTML/CSS, MATLAB
Tools: Git, AWS (RDS, S3, Lambda, SageMaker), Open AI API
Frameworks & Libraries: React, Node.js, pandas, NumPy, matplotlib

EXPERIENCE

Northwestern University Practical AI Research Group (Dr. Michael Watson) — Evanston, IL
Research Assistant — May - Present
- Developing a web-based educational toolkit for supply chain network design, featuring real-world case studies and models, academic research, and categorized directory of end-user firms and service/software providers

Eclypsium: Supply Chain Security for IT Infrastructure — Portland, OR
Customer Operations and Services Intern — Summer 2024
- Analyzed upcoming 2025 National Security Agency (NSA) Cybersecurity Guidelines
- Developed a Python-based compliance certificate in Eclypsium's proprietary software consistent with guidelines

Khan Academy Schoolhouse.world
Math Tutor — September 2022 - August 2023
- Led group tutoring in algebra, geometry, and precalculus to prepare high school students for the SAT math exam

Catlin Gabel School Summer Camps
Student Director, Camp STEM Counselor — Summer 2021, Summer 2022
- Managed enrollment and logistics for 300 students using CampBrain database system
- Designed and led LEGO Robotics sessions for 20 students over 8 weeks to teach foundational skills in STEM

PROJECTS

***JumpStart Heart* | Northwestern University** — January 2024 - Present
- Awarded U.S. Patent #11,878,180 for a compact, low-cost AED powered by a car battery and designed for storage in a glovebox to provide life-saving treatment during cardiac arrest
- Selected for The Garage Residency Program to receive mentorship and workspace within Northwestern's entrepreneurial hub for startup incubation

***Hoop Deck* | Northwestern University** — January - March 2025
- Developed an AI-driven March Madness app to predict game outcomes and support interactive statistical analysis for bracket decision-making
- Utilized AWS SageMaker, Lambda, API Gateway, RDS, and S3 for full-stack deployment

***Crate-X* | Northwestern University** — March - June 2024
- Designed a sustainable, customizable crate for storing and transporting fine art for client Tradecraft Crating

***Nesting Number Blocks* | Northwestern University** — September - December 2023
- Designed and built wood manipulatives to support numeracy development for adults with cognitive difference

LEADERSHIP & AWARDS

Northwestern Murphy Scholar | Awarded $4,000 to pursue independent research project — April 2024 - Present
Northwestern Computer Science | Ambassador, Student Advisory Group — December 2024 - Present
National Merit Scholar | Awarded $2,500 scholarship applied toward college tuition — April 2023