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)
Minor: Cognitive Science
GPA: 4.0/4.0, High Honors Dean's List 6/6 quarters

SKILLS

Programming Languages: Python, R, Java, JavaScript, C, C++, Assembly, SQL, HTML, CSS, MATLAB
Tools: Excel, Git, AWS (RDS, S3, Lambda, SageMaker, Elastic Beanstalk), Azure, OpenAI API, REST APIs, Docker
Frameworks & Libraries: React, Node.js, pandas, NumPy, matplotlib, scikit-learn, TensorFlow, PyTorch, igraph
Coursework: Data Structures, Algorithms, Programming, AI/ML, Operating Systems, Optimization, Statistics, Finance

EXPERIENCE

Northwestern University Practical AI Research Group   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
- Created Python compliance certificate that automated reporting workflows, improving efficiency and ensuring alignment with new 2025 National Security Agency (NSA) Cybersecurity Guidelines

Khan Academy Schoolhouse.world   Remote
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   Portland, OR
Student Director, Camp STEM Counselor   Summer 2021, Summer 2022
- Managed enrollment logistics for 300 students with CampBrain and designed LEGO Robotics sessions for 20 students to teach STEM skills

PROJECTS

Chess Game **| Northwestern University**   June - July 2025
- Built a chess game in Java with TDD/BDD workflows; implemented full piece movement, advanced rules (stalemate, castling, promotion, en passant), and a Java Swing GUI with internationalization support
- Ensured high software quality with 100% code coverage, complete mutation testing, peer code reviews, Clean Code practices, and CI/CD pipelines with branch protection

Social Network Analysis for Scoring Success in the NBA **| Northwestern University**   April - June 2025
- Built NBA player passing networks in Python to map ball movement and team dynamics
- Utilized R to analyze global network properties and model tie formation using ALAAM and ERGMs, evaluating how network position influences team success and individual scoring performance

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

LEADERSHIP & AWARDS

Northwestern Murphy Scholar | Awarded $4,000 to pursue independent research project   April 2024 - Present
Ambassador | Northwestern Computer Science Department   December 2024 - Present
Northwestern Garage Resident | Selected for competitive startup incubation program   January - June 2025
Awarded U.S. Patent #11,878,180 for compact, low-cost glovebox AED design   January 2024
National Merit Scholar | Awarded $2,500 scholarship applied toward college tuition   April 2023