

Blake Nelson

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EDUCATION

Iowa State University

Anticipated: May 2025

Bachelor of Computer Science (GPA: 3.7/4.0)

- Minor: Data Science

North Iowa Area Community College

May 2022

Associate of Arts and Associate of Sciences (GPA: 3.8/4.0)

TECHNICAL SKILLS & TOOLS

- **Languages (advanced):** Python, Java, C
- **Languages (intermediate):** HTML, CSS, JavaScript, C++, SQL, R
- **Development:** React, Node.js, Express.js, Git, MongoDB, RESTful APIs
- **Framework & Tools:** Android Studio, Visual Studio, Visual Studio Code, Eclipse
- **Data Science:** TensorFlow, Pandas, NumPy, Scikit-learn, Google Collab

SOFTWARE DEVELOPMENT EXPERIENCE

CURRIES Steel Doors and Frames

May 2024 – Present

IT Intern

Mason City, Iowa

- Developed analysis tool to analyze SQL statements and standardize formatting in SSRS reports
- Created SQL analysis system to identify query patterns and table relationships for database optimization
- Developed automated checks for report formatting compliance with company standards
- Worked with IBM iSeries (AS/400) and RPGLE programming on legacy systems

NOTABLE PROJECTS

Educational Trading Platform (Stock Dojo)

Fall 2024

Frontend Lead Developer

- Led Android app development for a classroom-based stock market simulator
- Built portfolio management system with real-time stock data integration
- Created features for teachers to monitor student trading activities
- Designed responsive layouts for Android phones and tablets

Checkers AI Engine

Fall 2024

Solo Developer

- Built an AI opponent using Monte Carlo Tree Search in Java
- Created a system for game state management and move validation
- Implemented AI decision-making for real-time gameplay
- Optimized search algorithm for better performance

LEADERSHIP & INVOLVEMENT

- **Data Science Club – Member** September 2022 – December 2024
- **Web Development Club – Member** September 2022 – December 2023
- **Maker Space (NIACC) – Leader** August 2020 – May 2022
- **National Society of Leadership and Success – Member** August 2021 – May 2022

Additional projects available: blake-nelson-dev.github.io