# Connor Thompson

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## Education

**Indiana University Bloomington**　　　　　　　　　　　　　　　　　　　Bloomington, IN
Luddy School of Informatics, Computing, and Engineering　　　　　August 2022 - May 2026
Bachelor of Science in Computer Science
GPA: 3.63/ 4.00
Specialization in Software Engineering
Minor in Data Science
Dean's List: Fall 2022, Fall 2023, Fall 2024
Relevant coursework: Mobile App Development, Data Structures,
Database Concepts, Intro to AI, System Programming with C & Unix

## Projects

**Business Action Plan Generator** | *Python, React.js, Flask, scikit-learn, OpenAI API*　　November 2024
- Collaborated with grad and undergrad to develop a full-stack web app for generating an informed action plan in a Gantt chart, placing 2nd in Luddy hackathon
- Assisted in utilizing scikit-learn Random Forest classifier for gathering market growth data
- Web scraped social media and finance data using Reddit API and Yahoo Finance API
- Performed sentiment analysis on financial and social media data using Pandas
- Combines data into Chat GPT prompt for an accurate business action plan

**Matrix Reduction Practice Platform** | *Next.js, Node.js, React.js, tailwind*　　January 2025
- Designed and developed a responsive web platform to practice matrix row reduction, a key concept in linear algebra
- Built a custom API with Next.js (Node.js runtime) to dynamically generate matrices and compute their reduced row echelon form (RREF)
- Implemented core matrix operations and RREF computation logic entirely in TypeScript for both frontend interactivity and backend validation
- Leveraged modern React hooks and component structure to manage user input

**Community Grocery List App** | *Kotlin, Android Studio, Firebase*　　December 2024
- Programmed 7 screens to provide functionality for managing and sharing grocery lists
- Designed adaptive user interface using Android XML with dynamic theme selection
- Integrated app with Firebase database for storing and retrieving grocery list data
- Collaborated with partner for testing and debugging, ensuring project deliverables

**Portfolio Website** | *React.js, Next.js, Node.js, Typescript, tailwind*

## Technical Skills

**Programming Languages:** Python, Java, SQL, Kotlin, C, C++, JavaScript, TypeScript
**Developer Tools:** Flask, Pandas, Scikit-Learn, React.js, Docker, Tailwind CSS, Firebase, PostgreSQL, GitHub, Next.js, Cursor, Android Studio, Visual Studio Code
**Miscellaneous:** Data Visualization, Unix Shell, Customer Service, Intermediate proficiency in Spanish
**Leetcode Problem-Solving:** 100+ Python problems solved focused on data structures and algorithms covering advanced and intermediate problem-solving techniques and patterns

## Work Experience

**Groundskeeper**　　　　　　　　　　　　　　　　　　　　　　　　Naperville, Illinois
River Run Club　　　　　　　　　　　　　　　　　　　　　　　　May 2024 - August 2024
- Made the pool and club area enjoyable for guests by watering flowers, cleaning debris, and managing trash
- Helped management with software issues involving the printer and computers
- Collaborated with other employees to be most efficient in completing the tasks for the day
- Communicated with guests to meet their needs and provide feedback to management
- Took ownership of groundskeeper duties to find areas that need work and improve on them

## Interests

IU Chess Club, audiobooks, running, video games, music