

# Ella Anderson

eander61@cord.edu • (507) 581 2333 • <https://github.com/ellaander>

## EDUCATION

---

**Concordia College | Moorhead, MN**

(Intended) B.A. in Computer Science | GPA: 3.9/4.0

**May 2026**

**Relevant Courses:** Applied Statistical Models, Computer Security, Principles of Programming Languages, Data Mining

## TECHNICAL SKILLS

---

**Programming Languages:** Python, R, HTML, CSS, SQL, JavaScript, Java, C, C#

**Technical Tools:** Tableau, Power BI, Figma, Visual Studio, RStudio, MySQL, GitHub, Arduino

## PROJECTS

---

### Quantitative Analytics

- Partnered with a local food pantry to translate high-level business objectives into measurable KPIs and promoted data-driven decision-making in a 5-year strategic plan to guide future operations and resource allocation
- Designed and implemented a comprehensive data flow system to track food distribution, client needs, and inventory, culminating in an interactive dashboard for real-time insights

### Full-Stack Web Development

- Collaborated with the President and Director of Marketing of local organization to optimize client satisfaction
- Developed a fully functional full-stack system, incorporating HTML, PHP, CSS, and JavaScript, enabling content management and member interaction
- Established a secure and scalable database using MySQL and phpMyAdmin to streamline event/member information and content updates

### Java Minigame

- Developed a full-featured Java Checkers game using object-oriented principles, custom classes, and Java Swing to create a responsive and interactive GUI with customizable components and animations
- Utilized data structures and multithreading to manage board state, validate moves, handle jumps, and implement turn-based algorithms

## WORK EXPERIENCE

---

**Independent Contractor | Self-Employed | Northfield, MN**

**May 2024 - Present**

- Designed and developed a responsive, full-stack website for a local business using HTML, CSS, and JavaScript
- Developed C++ software to transmit .wav files to audio preprocessors, optimizing real-time processing speed
- Programmed microcontrollers using the Arduino IDE to implement real-time digital signal processing (DSP) algorithms for audio applications

**Team Member | Target | Northfield, MN**

**July 2024 - Present**

- Assisted in inventory management and store organization while training new hires
- Resolved customer concerns efficiently and professionally, achieving positive feedback from guests and management

## VOLUNTEER EXPERIENCE

---

**Board Member | WINGS | Northfield, MN**

**September 2020 - Present**

- Collaborated with executive board members to develop and execute philanthropic initiatives, awarding over \$100,000 in grants to 16 nonprofits in 2024
- Led communications and community engagement efforts alongside the executive board, including promoting a \$25,000 grant, and growing donor engagement