

# Lucas Horn

lh.lucashorn@gmail.com | (319)-538-1480 | lucasahorn.github.io

---

## EDUCATION

### Iowa State University

Anticipated: May 2027

*Bachelor of Software Engineering, (GPA: 3.86)*

Ames, IA

- **Accolades:** Dean's List, Top 2% of Engineering Freshmen Fall 2023
- **Relevant Coursework:**
  - Developed responsive web applications using HTML, CSS, JavaScript, Bootstrap, Tailwind, and React, with a backend implemented in JavaScript using Nodemon.
  - Designed and implemented databases with MySQL and MongoDB, including schema design, complex queries, and performance optimization.

## PROJECT EXPERIENCE

### Weather Prediction AI Models

Fall 2025

- Developed neural networks to predict future weather patterns based on current weather data.
- Utilized Java to write the network functionality from scratch with multi-threading to increase overall training speed and number of networks that could be trained at a time.
- Tracked successes and failures of networks to identify problem areas and improve accuracy.

### Study Buddy

Spring 2025

- Partnered with a team of four to design an app to help students find study buddies through groups they are enrolled in, with the potential to message others and schedule study sessions.
- Implemented the back end using SpringBoot and MySQL, deploying through a CI/CD pipeline.
- **Awarded Most Heart** for consistent effort and a strong can-do attitude through the entire project.

### Farm-aceutical Fix

February 2024

- Cooperated with four teammates to develop a tool for pharmacists to view animal drug information from the FDA Green Book with ease.
- Learned React and JavaScript to build a functional, responsive user interface, using hooks for seamless state management and data interaction.
- **Earned Best Technical Build** for optimized data processing and search capabilities.

## PROGRAMMING SKILLS

- **Languages:** Java, C, Python, TypeScript, JavaScript, SQL
- **Frameworks:** SpringBoot, React, Flask, Bootstrap, Tailwind
- **Tools & Environments:** IntelliJ, Visual Studio, Eclipse, MySQL Workbench
- **Version Control & DevOps:** Git, GitHub, GitLab, CI/CD, Automated Testing

## LEADERSHIP & INVOLVEMENT

### Developer Group (Club at Iowa State University), Vice President

August 2024 – Present

- Coordinate with club leadership to organize and plan future meetings and allocate funding.
- Lead meetings that aim to teach students new frameworks, languages, or soft skills.

### Jones House in Eaton Hall, President

August 2023 – May 2025

- Facilitated bi-weekly meetings and led house activities, fostering a sense of community among residents.
- Organized and oversaw house events, ensuring smooth operations and active participation.

## WORK EXPERIENCE

### City of Cedar Rapids Aquatics

Summer 2023, 2024, 2025

*Lifeguard, Swim Lesson Instructor*

Cedar Rapids, IA

- Responded to emergencies with quick decisions and clear communication, directly saving two lives.
- Taught beginner swim lessons and safety skills to children through clear communication and patience.

### HyVee

July 2020 – January 2023

*Stocker, Cashier, Delivery Driver*

Marion, IA