

# Blaine Traudt

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## EDUCATION

### University of Nebraska-Lincoln

*B.S. in Computer Science & Mathematics; Minor in Business; Focus Areas in Cybersecurity and Networking*

#### Jeffrey S. Raikes School of Computer Science and Management

**May 2027**

*Lincoln, NE*

**GPA: 4.00**

Highly competitive honors program accepting approximately **40** students per year

Focused intensively on computer programming, business, communication and effective leadership

**Relevant Classwork:** Design Studio, Discrete Structures and Algorithms, Operating System Principles, IoT, Statistics (Python), Computer Systems (C), Computer Science I-IV (Java & SQL & Javascript), Business Law

## WORK EXPERIENCE

### Hudl Software Engineering Intern (Hardware Team)

**May 2025 – Present**

*Full stack development of Hudl's Focus Cameras | C# (.NET), React Native, Rust Embedded, NoSQL (DocDB) Lincoln, NE*

- Finalize manual control beta to open up Hudl to **\$3 million** in new revenue from global football (soccer)
- Maintain and add features to the Hudl Focus React Native app, like game controller support for manual cameras
- Develop new endpoints and firmware to support new football endzone cameras to increase Hudl's marketshare

### Speedway Motors Software Engineering Intern

**May 2024 – May 2025**

*Contributed to Speedway Motors' eCommerce site | C# (.NET), React (Next.js), SQL (DBeaver), Split, Azure Remote*

- Improved developer experience by utilizing PNPM workspaces to reduce hot reloads from **200s to 2s** in Next.js
- Migrated and refactored React contexts to Zustand stores to improve performance and increase revenue

### School of Computing Learning Assistant and Raikes Teaching Assistant

**January 2024 – May 2025**

*UNL SoC LA for 155E (C 1) and 156 (Java 2). Raikes TA for 183H (Java 1) | Java, C, Leadership*

*Lincoln, NE*

- Provide constructive, positive feedback to students in a timely manner on code completion and quality

## PERSONAL PROJECTS

### CornCycle | Hardware

**February 2025**

*Tron light cycle themed game with real life remote controlled cars | Python (Pygame), C++ (Arduino), C (Pico SDK)*

- Won **2nd** place at Corn Hacks by working with the Bluepad32, ESP-NOW, OpenCV, and Pygame libraries
- Built RC Cars with ESP32s and IR LEDs that interacted with the game through an Xbox Kinect and Pico W

### LISA - a Local Intelligent Student Advisor

**September 2024**

*AI College Advisor with a realistic voice and face | Python (Jupyter + Flask), JS (Node + Express, Next.js), Kubernetes*

- Won **2nd** place for the Red Hat Challenge at Hack Midwest 2024 utilizing Red Hat OpenShift powered by AWS
- Developed in parallel with 3 teammates over a 24-hour hackathon managing several microservices and a LLM

### Lucky Liars | Hardware | API

**February 2024**

*AI-powered murder mystery game that generates a new experience every playthrough | Rust (Bevy), JS (Node + Express), C++*

- Won **1st** place at Corn Hacks by interfacing between a Node GPT API server, Rust game, and C++ Hardware

### Studors | Demo: studors.traudt.dev

**August 2022 – May 2023**

*A web service that allows for students to get in contact with volunteer student tutors | Typescript, SQL, HTML, CSS*

- Coordinated with the Chief Technology Officer at Lincoln Public Schools to deploy to students in highschool

## SKILLS

**Software Development:** C, C#, C++, Docker, Git, GNU/Linux, Java, Javascript, Python, Rust, SQL, Typescript

**Hardware Development:** Microcontrollers (Arduino/Pico SDK), custom PCs, circuit/PCB design (KiCad)

## LEADERSHIP AND INVOLVEMENT

### Initialize (President)

**August 2023 – Present**

- Organize and keep track of current members and active initiatives to best allocate students with mentors

### LSW Programming Club (Co-Founder)

**August 2022 – May 2023**

- Co-founded a programming club attending hackathons while growing it from **2** to **15** total members in a year