

# Logan Roe

(815) 992 – 0287 | [loganroe388@gmail.com](mailto:loganroe388@gmail.com) | [www.linkedin.com/in/loganroe-se](https://www.linkedin.com/in/loganroe-se) | [www.loganroe.com](https://www.loganroe.com)

## Education

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**Iowa State University** - Ames, Iowa

Expected May 2025

Bachelors in Computer Engineering, General Business Minor

GPA: 3.78/4.00

Dean's List

Fall 2021 – Spring 2024

ISU Honors

2021 – Present

**Relevant Coursework** – Design & Analysis of Algorithms, Big Data Analytics, Construction of User Interfaces, Digital Logic, Linear Algebra, Embedded Systems, Operating Systems

## Skills

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### Languages

- Java, MATLAB, C++, JavaScript, HTML, CSS, Python, Kotlin, SQL, Groovy, Bash Script, VBA

### Software

- Git, Android Studio, Jenkins, AWS, AI Training, Visual Studio, Node.js, Virtual Box, Linux, Docker

## Professional Experience

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**John Deere** – Ames, Iowa

Computer Engineer

October 2022 – Present

*MATLAB / JavaScript / HTML / CSS / C++ / Groovy / Git / Docker / Jenkins / Visual Studio / Node.js*

- Optimized and enhanced existing projects using JSON caching and modularity, reducing processing time to one-fifth of the original duration and saving hundreds of colleagues up to two hours per day.
- Managed experimentation, prototyping, and approval of 8 new ideas I generated by effectively demonstrating value thus leading to a 25-30% higher adoption rate due to new, easier to use feature-sets.
- Led in-depth code demos to hundreds of colleagues for project exposure and criticism leading to near 100% adoption of new, improved projects, up from around 30-40%.
- Produced in-depth, easy to read, easy to navigate documentation for a complex tool I created leading to 50-60% less inquiries about how the tool functions and a 20-30% higher adoption rate.

**Sign Business** - Odell, Illinois

Co-Ownership

July 2019 – Present

*HTML / CSS / JavaScript / Shopify*

- Designed and implemented website features, improving overall usability and appearance resulting in over 300% higher user engagement and website visits.
- Managed and increased sales both online and in-person by up to 25%.

## Projects

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**dripdrop** – Iowa State University

Full-Stack Developer

August 2024 – May 2025

*Python / React / React Native / TypeScript / AWS / Bruno / Expo Go / MySQL*

- Developed the backend AWS infrastructure for a reliable and scalable application.
- Designed and developed the feed algorithm and the frontend for the feed, AI Suggestions, and more.