

# Eric Lucas

**Portfolio:** [erictlucas.com](https://erictlucas.com)

[linkedin.com/in/eric-lucas-542a00350](https://linkedin.com/in/eric-lucas-542a00350)  
[ericlucas619@gmail.com](mailto:ericlucas619@gmail.com) | (319) 349-5795

## Education

**University of Iowa** | Iowa City, IA

August 2023 - May 2027

**B.S. in Computer Science and Mathematics**

GPA 3.87/4.0

- Arthur A. Collins Computer Science Scholarship (2025)
- Principal Financial Group Computer Science Scholarship (2024)
- Dean's List (Fall 2023 - Spring 2025)
- University Honors Program Member

## Experience

**University of Iowa, Department of Mathematics** | Iowa City, IA

**Undergraduate Research Assistant** September 2024 - August 2025

- Awarded competitive funding to study advanced topology concepts, focusing on homology and Dehn's Surgery on knots
- Investigated the relationship between Dehn's Surgery on a knot and the formation of a Klein bottle, analyzing topological transformations and other representations
- Enhanced understanding of theoretical mathematics through independent study and collaboration with faculty advisors
- Wrote "Integral Klein Bottle Surgeries and Immersed Curves: Some Obstructions for Fibered Knots" with Professor Robert Deyeso III in preparation

**Pactiv Evergreen** | Cedar Rapids, IA

**Controls / Electrical Engineering Intern**

May 2024 - August 2024

- Reviewed and corrected electrical schematics using AutoCAD
- Assisted in developing customer kits using SOLIDWORKS
- Updated and maintained system standards documentation
- Identified and resolved errors within the Propel System to ensure operational accuracy

## Skills & Tools

**Tools:** GitHub, Tensorflow, Numpy, Lean, SOLIDWORKS, AutoCad, Linux

**Languages/Frameworks:** Python, Java, HTML/CSS, JavaScript, C, .Net

**Certificates:** Machine Learning Specialization (DeepLearning.AI),  
Deep Learning Specialization (DeepLearning.AI / Stanford Online)