

**A Hyeon (Lauren) Song**  
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## OBJECTIVE

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Seeking research opportunities where I can apply my strong foundation in mathematics and interest in bioinformatics to contribute to projects at the intersection of computation and biomedicine. Eager to gain hands-on experiences and develop research skills in preparation for future graduate studies in this field.

## EDUCATION

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**University of Florida**, Gainesville, FL – B.S. Mathematics Jan 2025 - Dec 2026 (Expected)

**University of South Florida**, Tampa, FL – B.S. in Computer Science 2022 – Dec 2024  
Major GPA: 3.85 / 4.0 Cumulative GPA: 3.80 / 4.0

## RELEVANT COURSEWORK

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Programming Organization | Probability and Statistics for Engineers | Intro to Discrete Structures

## EXPERIENCES

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**Research Student**, Undergraduate Research Society Aug 2024 – April 2025, Tampa

- Conducted a systematic review comparing Cologuard vs. Colonoscopy in early colorectal cancer (CRC) detection, focusing on specificity, sensitivity, and missed adenoma rates.
- Examined clinical trial data and created performance comparison charts to evaluate both the diagnostic accuracy and economic effectiveness of computer-aided detection (CADe) technologies in colonoscopy.

**Research Student**, Undergraduate Research Society Oct 2023 – April 2024, Tampa

- Analyzed the potential role and effectiveness of telehealth solutions in improving access to healthcare for underserved communities, drawing parallels to financial technology in bridging economic disparities by conducting a literature review.
- Explored mobile imaging technologies and their impact on remote diagnostics, highlighting the intersection of AI-driven healthcare in promoting global health equity.
- Presented at the University of South Florida Undergraduate Research Conference, demonstrating strong analytical and problem-solving skills relevant to data-driven industries.

## PROJECTS

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**Modular Arithmetic w/ Applications to Cryptography** May 2024, Tampa

- Applied GCD, RSA Algorithm, and Euclidean Algorithm to analyze and understand the relationships between given data (p, q, and e) in a hands-on mathematical calculation.

**Manufacturing Educational Robot** April 2024, Tampa

- Led a team to design and manufacture an educational robot, contributing to the design and programming for 3D printing.
- Optimized the robot performance to meet kid-friendliness requirements while ensuring cost-effective production under a limited budget of approximately \$40.
- Balanced budget constraints and technical functionality, mirroring the need to assess cost-effective solutions in financial services and technology.

## SKILLS

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**Technical:** Microsoft Office Suite, Excel, Python, LaTeX, Thinker CAD, Blender

**Languages:** English, Korean