A Hyeon (Lauren) Song

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OBJECTIVE

Seeking a research internship where I can apply my strong foundation in mathematics and interest in medical AI to contribute to cutting-edge projects in AI in medicine or Bioinformatics. Eager to gain hands – on experiences and develop research skills in preparation for future graduate studies in the field.

EDUCATION

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

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

EXPERIENCES

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

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

Technical: Proficient with Microsoft Office Suite, Excel, Python, C, LaTeX, Thinker CAD, Blender, CANVA

Language: English, Korean