

LILLY NGO

Eden, Maryland 21822
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EDUCATION

Salisbury University, Henson School of Science & Technology Expected May 2026
Honors Bachelor of Science, Computer Science Major, Software Engineering Track GPA: 3.5
Mathematics Major, Computational Mathematics Track
Relevant Coursework: Theory of Computation, Linear Algebra, Advanced Data Structures

SKILLS

Programming Languages: Java, JS, Python, C++, HTML/CSS
Software Proficiency: VSCode, Replit, Git/GitHub, Eclipse

EXPERIENCE

Predicting Heart Disease Probability Using Naïve Bayes ML Salisbury, MD
Student Software Engineer September 2024 - Present

- Developed a Kernel Density Estimation/Categorical Naïve Bayes machine learning model to predict heart disease likelihood using the UCI heart disease repository, focusing on patient characteristics.
- Performed data preprocessing/analytics and model evaluation, gaining practical experience in machine learning applications in medical data analysis.

Investigations of Fractal Dimensions in Group-Generated Cellular Automata Salisbury, MD
Undergraduate Guerrieri Summer Research Fellow May 2024 - August 2024

- Analyzed fractal dimensions using data analysis and statistical methods to model complex geometric patterns.
- Presented at Salisbury University's Summer Research Symposium to an audience of 100+ attendees.

Zero Locations and Growth Rate Dimensions for Non-Zero Elements in Cellular Automata Salisbury, MD
Undergraduate Student Researcher January 2024 – May 2024

- Led research on cellular automata and fractal dimensions, developing proofs and advancing theoretical understanding.
- Presented findings at SU's Undergraduate Research Conference (SUSRC), engaging with 50+ participants.

Exploration of Hidden Gender Bias in Large-Language Models Salisbury, MD
Clark Honors College Student Researcher January 2024 – May 2024

- Conducted analysis of scholarly journals to identify trends in bias within Large Language Models (LLMs) and measured bias rates by collecting data through Prompt Engineering techniques.
- Presented findings on LLM bias trends at Salisbury University's Undergraduate Research Conference (SUSRC).

Automating Care: Artificial Intelligence Reducing Work-Related Fatigue in Healthcare Salisbury, MD
Clark Honors College Student Researcher August 2023 – December 2023

- Analyzed research on AI/ML in healthcare, highlighting advancements and challenges, and proposed a multifaceted AI implementation to improve outcomes.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Seagull Circle, Peer Mentor September 2024 - Present

- Mentored freshmen by providing general support, taking case notes, and tracking progress using benchmarks.
- Helped students develop academic skills and implemented strategies to improve retention rates in a supportive learning environment.

Student Government Association, Treasurer May 2024 - Present

- Managed \$70,000 annual budget, ensuring proper allocation of funds and adherence to financial policies.
- Prepared detailed financial reports and forecasts, providing the executive board with actionable insights to guide future spending decisions.

Henson Student Leader Advisory Committee (H-SLAC), Member December 2023 - Present

- Represented student body concerns to Henson faculty, providing feedback and consulting on student-related issues.
- Collaborated with 10+ fellow student leaders and faculty to develop programs that increased student participation by 27%.