# Ciana Lyle

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## Education

**Towson University**, Honors College— Towson, MD Expected graduation May 2025

Bachelor of Science, Computer Science

Cumulative GPA: 3.97 Towson University Dean’s List (Fall 2021-Fall 2024)

## Skills

**Programming Languages:** Proficient inJava, Python; Experience in CSS, HTML, JavaScript, MySQL, Apex

**Software:** Eclipse IDE, Anaconda Navigator, Jupyter Notebook, Wireshark, Oracle VM Virtual Box, Amazon Web Services (AWS) Comprehend, AWS Kendra, Google and Microsoft applications, Salesforce, GitHub

**Technical Skills**: Artificial Intelligence (AI), Machine Learning (ML), RSA, Elgamal, Elliptic Curve Cryptography (ECC), Cryptographic Principles, Post-Quantum Cryptography, Quantum Computing, Networks, Subnetting, VLANs, TCP/IP, Linux, Software Engineering, SQL Databases, Cybersecurity Principles, Cyber Warfare Principles

## Professional Experience

**General Dynamics Information Technology (GDIT)** June 2023-present

*Software Developer Intern*

* Programmed and tested software enhancements such as test classes and a novel autosave feature to the Salesforce user interface and backend using HTML, JavaScript, and Apex
* Trained AWS Kendra Artificial Intelligence (AI) to answer questions about GDIT policy documents with a group of three other interns
* Integrated AWS Comprehend with AWS Kendra
* Presented project to GDIT senior leadership including CEO, who highlighted our work during an [interview with Nextgov](https://www.nextgov.com/people/2024/05/ai-commitment-workforce-helped-fuel-gdits-growth-2023/396433/)

## Technical Coursework

**Software Quality Assurance and Testing** Fall 2024

**Artificial Intelligence** Spring 2024

* Programmed a functioning Generative Adversarial Network (GAN) that generated pictures of American Sign Language when given an inputted letter or word
* Presented on ResNet, a Convolutional Neural Network (CNN) used for image recognition

**Operating Systems** Spring 2024

* Programmed a Round Robin CPU scheduling algorithm that handled continuously incoming processes

**Intro to Cryptography** Spring 2024

* Programmed an RSA algorithm

**Disinformation in US Culture**  Spring 2024

* Developed a plan for reforming social media using AI and cybersecurity principles

**Data Communications and Networking** Fall 2023

* Built a sample network with Cisco Packettracer for an example company using VLANs

**Database Management Systems** Fall 2023

**Software Engineering** Fall 2023

* Programmed an interactive college planner with a group of five class members
* Created a simple linear regression ML model that predicted amount of time an assignment would take

**Data Structures and Algorithm Analysis** Spring 2023

**Intro to Cybersecurity** Spring 2023

**Intro to Statistical Methods** Spring 2023

**Discrete Mathematics** Fall 2022