

## Murtaza Amjad

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### Objective

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Aspiring **Software Engineer**, **Secure Software Developer**, and **AI Security Engineer**. Eager to apply my knowledge in AI, cybersecurity, and software engineering to develop and enhance secure, intelligent software systems. Seeking a role that challenges me to innovate and contribute to advancements in AI-powered security solutions through software engineering.

### EDUCATION

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#### University of New Haven

*B.S. in Computer Science*

**West Haven, Connecticut**

*Expected Graduation, May 2026*

- o **GPA:** 3.56/4.00, *Dean's List*
- o **Related Coursework:** Data Structures & Algorithms, Databases & SQL, Operating Systems, Network Technologies, Adv Programming C & C++, Computer Security, Ethical Hacking, Intro to Software Engineering & DevOps, Cloud Computing

### SKILLS

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**Programming:** Java, TypeScript, React, React-Native, Python, Pandas, NumPy, Matplotlib, HTML/CSS/JavaScript, SQL, C++, C, C#

**Tools:** AWS, Metasploit, Wireshark, Nmap, Linux, Jupyter Notebook, Visual Studio Code, MySQL, Unity, Git, Arduino IDE

### EXPERIENCE

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#### Information Security Officer Intern

*IQ4*

**Remote, Connecticut**

*Jun 2024 – Aug 2024*

- Participated as an ISO intern where I analyzed real-world cybersecurity challenges, emphasizing expertise in **GRC**, **SOC**, and the **NIST Cybersecurity Framework's five pillars: Identify, Protect, Detect, Respond, and Recover**.
- Developed strategic solutions for data breach prevention and mitigation, ensuring 100% compliance with security policies and procedures.
- Implemented the **NIST Framework** to identify threats and formulate robust defensive strategies, effectively mapping cybersecurity function pillars in case studies.

### PROJECTS

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#### Murtaza Amjad Portfolio Website

[Personal Website](#)

**West Haven, Connecticut**

*Mar 2025 – Mar 2025*

- Developed a dynamic, responsive portfolio website using **HTML**, **CSS**, and **JavaScript**, ensuring seamless functionality across all devices, which improved accessibility and user engagement.
- Employed **Agile** methodologies for structured project management, organizing tasks into sprints ensuring timely and organized delivery of project milestones.

#### Full Stack Application - Hackathon

*Classify*

**Wesleyan University**

*Nov 2024 - Nov 2024*

- Engineered a course selection tool with personalized recommendations, enhancing academic planning. Utilized **Python**, **Flask**, & **Flask-SQLAlchemy** for a smart matching algorithm that tailors course and professor suggestions to user profiles.

- Designed a responsive user interface with **HTML**, **CSS**, and **JavaScript**, featuring an autocomplete search that significantly increased user search efficiency by 35%.
- Automated user profile customization through a dynamic survey, boosting signup completion by 50%.

## Data Science Project

West Haven, Connecticut

*Data-Driven Insights into 19th-Century Publishing Trends*

Aug 2024 – Aug 2024

- Analyzed 19th-century book publication trends using **Python**, **pandas**, and **numpy**, revealing key patterns across cities like London, Paris, and New York.
- Developed visualizations with **Matplotlib**, improving data interpretation by 40% and highlighting significant historical trends.
- Utilized **numpy** for efficient numerical operations, enhancing processing speed by 30% and ensuring data accuracy in transformations.

Projects on Github: **Cross-Platform File Transfer Software (In Progress)**, **Runner Game**, **Hangman Game**, & more

## CERTIFICATIONS

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**IBM DevOps and Software Engineering Professional Certificate** – In Progress Expected Completion: June 2025

- Currently completing a rigorous 15-course professional certificate program focusing on mastering **DevOps**, **Agile**, **Scrum**, **CI/CD**, and **Cloud Native** technologies.
- Developing hands-on skills in **Python** programming, microservices, serverless technologies, and secure software deployment using industry-standard tools such as **Docker**, **Kubernetes**, **OpenShift**, and **GitHub**.

**Cybersecurity Excellence Certificate: The Threat Within and NIST Framework** – 350 Related Workforce Experience Hours Issued by IQ4 & Cybersecurity Workforce Alliance on August 26, 2024

- Awarded for outstanding performance in analyzing real-world cybersecurity scenarios and developing solutions to detect and defend against cyber-attacks and contributed **350** hours of workforce experience.

## ACTIVITIES AND LEADERSHIP

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**University of New Haven Zeta Chapter of Upsilon Pi Epsilon**

West Haven, Connecticut

*President*

Mar 2024 – Current

**Computer Programming Club**

West Haven, Connecticut

*President*

Aug 2023 – Current

**NorthEast Annual Cybersecurity Summit**

Quinnipiac University

*Student Ambassador*

Nov 2024 – Nov 2024

**Hackathon**

Wesleyan University

*Front-End Lead*

Nov 2024 – Nov 2024