

## 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:** 3.63/4.00, *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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#### Cross-Platform File Transfer System

*SendIt*

**West Haven, Connecticut**

*Feb 2025 – Current*

- Engineered a lightweight, socket-based file transfer application in **Java** enabling direct peer-to-peer file sharing without cloud dependencies.
- Implemented a GUI using **JavaFX** to streamline user interaction, featuring IP, port, and password fields for secure dynamic authentication.
- Developed both sender and receiver modules with support for unlimited file sizes and robust error handling.
- Utilized **TCP** sockets to ensure reliable file transmission across platforms (Windows/macOS/Linux).
- Led Git version control operations including branching, merging, and resetting changes to ensure collaborative and clean development cycles.

<b>Murtaza Amjad Portfolio Website</b> <a href="#">Personal Website</a>	<b>West Haven, Connecticut</b> Mar 2025 – Mar 2025
<ul style="list-style-type: none"> <li>Developed a dynamic, responsive portfolio website using <b>HTML</b>, <b>CSS</b>, and <b>JavaScript</b>, ensuring seamless functionality across all devices, which improved accessibility and user engagement.</li> <li>Employed <b>Agile</b> methodologies for structured project management, organizing tasks into sprints ensuring timely and organized delivery of project milestones.</li> </ul>	
<b>Full Stack Application - Hackathon</b> <i>Classify</i>	<b>Wesleyan University</b> Nov 2024 - Nov 2024
<ul style="list-style-type: none"> <li>Engineered a course selection tool with personalized recommendations, enhancing academic planning. Utilized <b>Python</b>, <b>Flask</b>, &amp; <b>Flask-SQLAlchemy</b> for a smart matching algorithm that tailors course and professor suggestions to user profiles.</li> <li>Designed a responsive user interface with <b>HTML</b>, <b>CSS</b>, and <b>JavaScript</b>, featuring an autocomplete search that significantly increased user search efficiency by 35%.</li> <li>Automated user profile customization through a dynamic survey, boosting signup completion by 50%.</li> </ul>	
<b>Data Science Project</b> <i>Data-Driven Insights into 19th-Century Publishing Trends</i>	<b>West Haven, Connecticut</b> Aug 2024 – Aug 2024
<ul style="list-style-type: none"> <li>Analyzed 19th-century book publication trends using <b>Python</b>, <b>pandas</b>, and <b>numpy</b>, revealing key patterns across cities like London, Paris, and New York.</li> <li>Developed visualizations with <b>Matplotlib</b>, improving data interpretation by 40% and highlighting significant historical trends.</li> <li>Utilized <b>numpy</b> for efficient numerical operations, enhancing processing speed by 30% and ensuring data accuracy in transformations.</li> </ul>	
<b>Projects on Github: ShellCommander, SocketSync Runner Game, Hangman Game, &amp; more</b>	
<b>CERTIFICATIONS</b>	
<b>IBM DevOps and Software Engineering Professional Certificate – In Progress Expected Completion: June 2025</b>	
<ul style="list-style-type: none"> <li>Currently completing a rigorous 15-course professional certificate program focusing on mastering <b>DevOps</b>, <b>Agile</b>, <b>Scrum</b>, <b>CI/CD</b>, and <b>Cloud Native</b> technologies.</li> <li>Developing hands-on skills in <b>Python</b> programming, microservices, serverless technologies, and secure software deployment using industry-standard tools such as <b>Docker</b>, <b>Kubernetes</b>, <b>OpenShift</b>, and <b>GitHub</b>.</li> </ul>	
<b>Cybersecurity Excellence Certificate: The Threat Within and NIST Framework – 350 Related Workforce Experience Hours Issued by IQ4 &amp; Cybersecurity Workforce Alliance on August 26, 2024</b>	
<ul style="list-style-type: none"> <li>Awarded for outstanding performance in analyzing real-world cybersecurity scenarios and developing solutions to detect and defend against cyber-attacks and contributed <b>350</b> hours of workforce experience.</li> </ul>	
<b>ACTIVITIES AND LEADERSHIP</b>	
<b>Computer Programming Club</b> <i>President</i>	<b>West Haven, Connecticut</b> Aug 2023 – Current
<b>University of New Haven Zeta Chapter of Upsilon Pi Epsilon</b> <i>President</i>	<b>West Haven, Connecticut</b> Mar 2024 – June 2025
<b>NorthEast Annual Cybersecurity Summit</b> <i>Student Ambassador</i>	<b>Quinnipiac University</b> Nov 2024 – Nov 2024
<b>Hackathon</b> <i>Front-End Lead</i>	<b>Wesleyan University</b> Nov 2024 – Nov 2024