Murtaza Amjad

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Objective

Aspiring **Software Engineer** and **AI Security Engineer** with expertise in full-stack development, secure software engineering, and AI-driven solutions. Skilled in C++, Java, Python, and SQL, with hands-on expertise in cross-platform application development, real-time systems, web applications, and data science projects. Proven ability to design and deploy scalable applications, leveraging Agile workflows, version control, and AWS cloud solutions.

EDUCATION

University of New Haven   **West Haven, Connecticut**
B.S. in Computer Science   *Expected Graduation, May 2026*

- o **GPA:** 3.63/4.00, *Dean's List*
- o **Related Coursework:** Data Structures & Algorithms, Databases & SQL, Operating Systems, Adv Programming C & C++, Computer Security, Intro to Artificial Intelligence, Intro to Software Engineering & DevOps, Cloud Computing

SKILLS

Programming: Java, TypeScript, React, React-Native, Python, Pandas, NumPy, Matplotlib, HTML/CSS/JavaScript, SQL, C++, C, C#
Tools: AWS, Linux, Jupyter Notebook, Visual Studio Code, MySQL, Unity, Git, Arduino IDE, MongoDB, Figma

EXPERIENCE

Co-Founder & Lead Developer (Startup in Development)   **West Haven, Connecticut**
SendIt   *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.

President   **West Haven, Connecticut**
Computer Programming Club   *Aug 2023 – Current*

- Directed development of **full-stack and systems projects**, including *SendIt* (secure cross-platform file transfer) and hackathon prototypes (*Classify*), applying Java, Python, SQL, and Spring Boot.
- Implemented **Agile development workflows** (sprint planning, Git branching strategies, CI practices), ensuring collaborative progress across **20+** active members.
- Organized **technical workshops** on Git/version control, cybersecurity, cloud, and emerging tech (AI/ML), improving member proficiency in industry-standard tools and frameworks.
- Coordinated **project showcases and capstone-level presentations** for industry experts, demonstrating student-built software solutions and gaining external recognition.
- Expanded technical engagement by introducing **coding competitions, hackathons, and startup pitch nights**, fostering applied problem-solving and scalable software design.

PROJECTS

Murtaza Amjad Portfolio Website   **West Haven, Connecticut**
Personal Website   *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   **Wesleyan University**
CLassify   *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.

CERTIFICATIONS

Lean Six Sigma Yellow Belt Certificate *– Process Optimization & Software Quality*
Issued by Webster Bank on July 2025

- Completed training in **DMAIC methodology**, applying **root cause analysis, process mapping, and variance reduction** to improve workflows. Gained skills in **defect reduction, code quality improvement, and system scalability**, aligning continuous improvement with **software engineering practices**.

IBM DevOps and Software Engineering Professional Certificate *– In Progress Expected Completion: December 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**.*

ACTIVITIES AND LEADERSHIP

University of New Haven Zeta Chapter of Upsilon Pi Epsilon   **West Haven, Connecticut**
President   *Mar 2024 – June 2025*
NorthEast Annual Cybersecurity Summit   **Quinnipiac University**
Student Ambassador   *Nov 2024 – Nov 2024*
Hackathon   **Wesleyan University**
Front-End Lead   *Nov 2024 – Nov 2024*