

Murtaza Amjad

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EDUCATION

University of New Haven

B.S. in Computer Science

West Haven, Connecticut

May 2026

- o GPA: 3.67/4.00, Dean's List

SKILLS

Programming: Java, C++, JavaScript, TypeScript, Python, C#, Swift, Kotlin, SQL, C, HTML, CSS

Frameworks & Libraries: Spring Boot, React, Vue/Express/Node.js

Tools & Practices: AWS, Git/GitHub Actions, Figma, Linux, Docker, Postman, Unity, Agile/Scrum, Unit Testing, Data Structures & Algorithms

EXPERIENCE

Software Engineering Research Assistant V & Team Lead

West Haven, Connecticut

University of New Haven

Feb 2026 – May 2026

- Built a **React** analytics dashboard to visualize operational, cost, status, and performance metrics for stakeholder decision-making.
- Integrated **REST APIs** and data pipelines to support low-latency ingestion, synchronization, and reporting.
- Translated stakeholder requirements into dashboard features, **AI**-assisted decision logic, and backend integration tasks that took **extracted data**, **transformed** it, and **loaded** it to the proper format for project managers and executives to view.

Projects

SendIt - Cross-Platform P2P File Transfer Application

- Architected a cross-platform **P2P file transfer system** using **JavaFX**, **Kotlin**, **Swift**, and **Spring Boot**, eliminating reliance on third-party cloud storage and supporting secure device-to-device sharing across **iOS**, **Android**, and **desktop**.
- Co-led development of a native **iOS** client in **SwiftUI** owning the sender-side flow and encryption implementation; built the **Android UI** in **Kotlin** handling core screens and navigation.
- Designed a **WebSocket**-based relay architecture with end-to-end encryption preventing persistent server-side file storage; implemented **JWT**-based authentication with role-based access control for encrypted multi-client session management.
- Configured **GitHub Actions CI/CD** pipelines to automate build and test workflows across the development lifecycle.
- Led **Agile** development from architecture and **UML** design through implementation, testing, documentation, and demo delivery; produced a public demo video.

PokéPlatform - Full-Stack Web Platform

- Built a deployed full-stack web application (**Vue.js**, **Express.js**, **MongoDB**) with a **REST API** supporting full **CRUD** functionality.
- Manually tested and validated **REST API** endpoints using **Postman** throughout development.

CERTIFICATIONS

Lean Six Sigma Yellow Belt Certificate

ACTIVITIES AND LEADERSHIP

Computer Programming Club (*President*), **Upsilon Pi Epsilon** (*President*), **NorthEast Annual Cybersecurity Summit** (*Student Ambassador*), **Wesleyan University Hackathon** (*Front End Lead*)