

# Shujaullah Ahsan

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Boston, MA

## Education

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**Northeastern University**, Boston, MA September 2022 – Present  
*Masters in Data Science*

Relevant Coursework: Introduction to Data Management and Processing, Web Development.

**University of Massachusetts Boston**, Boston, MA September 2019 – May 2022  
*Bachelor of Science in Computer Science*

Relevant Coursework: Data Structures and Algorithms, Higher Level Languages, Java Compiler, Operating Systems, Database Management, Android Development, Theory of Computation.

**Quincy College**, Quincy, MA September 2017 – May 2019  
*Associate in Computer Science*

Relevant Coursework: Advanced Java Programming, Data Structures and Algorithms in C++, Linux Administration, Robotics.

## Skills and Technologies

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**Programming:** Python, Java, JavaScript, C++, C#

**Databases:** MySQL, PostgreSQL

**Frameworks & Libraries:** Django, React, Spring Boot, Qt, .NET

**Backend:** AWS (S3), Heroku

**Tools:** Git, GitHub, IntelliJ, VS Code, Android Studio, PyCharm, Visual Studio, Bitbucket

**Operating Systems:** Windows, Linux, macOS

**Familiar With:** R, MongoDB, JSON, AI, TypeScript, Racket

## Work Experience

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**Software Development Engineer**, Medica Corporation, Boston, MA November 2022 – Present

- Led the development of the **EasyLyte** application using C++ and Qt, streamlining Quality Control (QC) testing.
- Optimized serial connections and real-time data visualization, storing results in MySQL.
- Collaborated with cross-functional teams to deliver high-quality software solutions.
- Employed Agile/Scrum methodologies to deliver functional code each sprint.
- Developed MySQL-based reports for the manufacturing department, enabling detailed data analysis.
- Utilized multi-threading in C++ for responsive data processing in EasyLyte devices.
- Programmed RFID tags using C# and .NET for EasyLyte systems.
- Contributed to the **EasyLyte Neo Android** application, coding components in Java.

**UNIX Lab Operator**, University of Massachusetts Boston January 2020 – May 2022

- Developed a CS portal for class registration using HTML, CSS, JavaScript, and Django.
- Implemented a registration and authentication system with an intuitive dashboard.
- Utilized shell scripts for system monitoring and process management.
- Automated software updates with Cron jobs to maintain system reliability.

## Projects

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**Matched** *Technologies: Django, AWS S3, HTML, CSS, JavaScript*

Led a team to create a website for helping pro athletes find jobs post-retirement. Implemented registration, authentication, and dashboard features. Deployed using Heroku.

**JDBC Shop***Technologies: JDBC, Oracle SQL*

Developed a command-line application to manage shop customers, products, and sales. Created an Oracle-backed database system.

**Compiler Project***Technologies: Java*

Built a subset of a Java compiler to validate tokens, parse trees, and check for syntax errors. Generated Java bytecode instructions for code execution.

**Achievements**

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- **2022 Departmental Distinction**, UMASS Boston CS Department
- **2021 & 2022 Dean's List**, UMASS Boston
- **2021 & 2022 UMASS Boston Computer Science Scholarship**
- **2018 Quincy College Codeathon Winner**

**Additional Information**

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- Comfortable learning new technologies and programming languages.
- Interested in Data Science and Machine Learning.
- Active problem solver on LeetCode.