

Afsana Bhuiyan

Bronx, NY | (347) 854-4495 | afsanab620@gmail.com

<https://www.linkedin.com/in/afsanabhuiyan/> | <https://afsanab.github.io/AfsanasPortfolio/>

Education

COOP Careers - Data Analytics Fellow

June 2025

- Engaged in a 16-week fellowship program, acquiring expertise in data cleaning, transformation, analysis, and visualization using SQL, Python, and Tableau, alongside continuous professional development

Rensselaer Polytechnic Institute, School of Science

May 2024

Computer Science

- Coursework:** Data Science, Database Systems, Interactive Data Visualization, Human & Machine Learning
- Extracurricular Activities:** Discrete Math Teaching Assistant, Girls Who Code Club President

Technical Skills & Certifications

- Certifications:** Google Analytics Professional Certificate (Coursera)
- Programming Languages:** Python, SQL, JavaScript, HTML/CSS, C++, C, Java
- Tools & Technologies:** Tableau, Excel (Pivot Table and Vlookup), Git, React, d3.js, Flask, Firebase, Junit, API

PROJECTS

Jet Genie

February '25

- Developed a full-stack travel planning web application using React.js, Node.js, Flask, and Firebase, featuring a drag-and-drop itinerary builder, Google Maps integration, and an AI-powered activity recommendation engine using Groq.
- Demonstrated time-management skills, ability to work under pressure, teamwork skills.

Movie Mate

November 2024

- Developed a responsive web app providing personalized movie recommendations.
- Implemented advanced filtering options for tailored suggestions.
- Designed an intuitive frontend using HTML, CSS, and JavaScript, optimized for responsiveness.
- Built a secure backend with Python (Flask) for API integration and server-side logic.

Genre Galaxy

April 2024

- Led development of web application with Python to visualize genre relationships from Goodreads data.
- Processed and analyzed dataset of over 10,000 books, generating network graphs with NetworkX to map co-occurrence patterns of 100+ genres, optimizing data representation for enhanced insights into genre dynamics.
- Created interactive data visualizations for users to explore genre connections dynamically.

WORK EXPERIENCE

ISO New England

Holyoke, MA

Software Engineer Intern

June 2023 – December 2023

- Tested internal web app with JUnit, achieving 85% code coverage and 4% performance boost.
- Developed automated email system using Java, Spring Boot, Maven, and Apache Camel that processed millions of records and improved data retrieval by 20%.
- Analyzed test data in Excel to generate visualizations of key metrics.
- Built dynamic graphs using Java and PL/SQL.
- Demonstrated problem-solving, presentation skills, project management, time management, and multitasking skills.

Girls Who Code

Remote

Teaching Assistant

June 2022 – August 2022

- Led 3-hour coding lessons for 40+ students, on web development fundamentals with JavaScript, HTML/CSS.
- Hosted weekly office hours and mentoring sessions, providing personalized guidance and support to help students successfully complete projects and refine their career/academic goals.
- Demonstrated leadership, communication, organization, and collaboration skills.