Afsana Bhuiyan

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EDUCATION

Rensselaer Polytechnic Institute   August 2020 - May 2024
Bachelor of Science in Computer Science
- **Relevant Coursework**: Data Science, Database Systems, Interactive Data Visualization, Human & Machine Learning
- **Affiliations**: Girls Who Code (President), Rewriting the Code(Member)

TECHNICAL SKILLS & CERTIFICATIONS

- **Certifications**: Google Analytics Professional Certificate
- **Programming Languages**: Python, SQL, JavaScript, HTML/CSS, C++, C, Java, R
- **Frameworks & Libraries:** React, Flask, Junit, Pandas, NumPy, Scikit-learn
- **Tools & platforms:** Git, GitHub, Tableau, Excel, Firebase, VS Code, Linux, PostgreSQL

EXPERIENCE

COOP Careers   New York, NY
Data Analytics Fellow   February 2025 – June 2025
- Trained in a 16-week fellowship focused on data cleaning, transformation, analysis, and visualization using SQL, Python, and Tableau, while engaging in continuous professional development and peer collaboration.
- Built interactive Tableau dashboards analyzing 500+ movies (2012–2016) to uncover key drivers of box office success, including revenue vs. budget, profitability by genre/director, and cast performance, and delivered actionable insights and strategic recommendations.

ISO New England   Holyoke, MA
Software Engineer Intern   June 2023 – December 2023
- Tested an internal web app with JUnit, reaching 85% code coverage and improving performance by 4%.
- Increased data retrieval speed by 20% by developing an automated email system with Java, Spring Boot, and Apache Camel that generated a real-time dashboard for improved team insights.
- Presented projects to 100+ employees at a company-wide expo and led a technical demo for a 10-person development team, strengthening communication and technical presentation skills.

Rensselaer Polytechnic Institute   Troy, NY
Computer Science Teaching Assistant   January 2023 – May 2023
- Led weekly office hours and exam review sessions to support 300+ students in mastering core computer science concepts.
- Graded programming assignments and provided detailed feedback, improving student understanding and performance.

Girls Who Code   Remote
Software Engineer Teaching Assistant   June 2022 – August 2022
- Led virtual coding lessons for 40+ high school students on web development fundamentals using JavaScript, HTML, and CSS.
- Guided students through 4 coding projects and provided mentorship on technical skills, project execution, and career exploration, fostering a supportive learning community.

Inside Job LLC.   Remote
Marketing Analyst Intern   June 2021 – August 2021
- Analyzed social media performance metrics and created branded Instagram content with Canva, driving higher engagement and aligning posts with target demographics.
- Conducted SEO keyword research and applied insights to optimize digital content, improving visibility and supporting data-driven marketing strategies.

PROJECTS

Jet Genie – AI Powered Itinerary builder   February 2025
- Developed the frontend for an AI-powered travel planner with a drag-and-drop calendar for customized day-by-day itineraries.
- Integrated Groq API with prompt engineering to generate real-time travel suggestions tailored to user preferences, with backend support via Flask and Firebase for data storage and syncing.

Genre Galaxy – Network Analysis of Literary genres   April 2024
- Built an interactive Python dashboard with NetworkX to perform network analysis on 10,000+ Goodreads books, mapping co-occurrence across 100+ genres.
- Applied graph theory to reveal reader cross-interest patterns and recommended strategies to optimize recommendation systems for publishers and platforms.