

Muntaqa Maahi

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Education

University at Buffalo - Engineering and Applied Sciences

B.S. Computer Science

Jun 2023

- Relevant Coursework: Algorithms and Complexity, Data Structures, Relational Database Management, Software Engineering

COOP Careers - Data Analytics Fellow

Dec 2024

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

Technical Skills & Certifications

Programming Languages: C/C++, Java, JavaScript/TypeScript, Python, Postgresql

Frameworks and Libraries: React, Next.js, Node.js, TailwindCSS, shadcn

DevOps & Tools: RESTful APIs, Git, SCRUM, Junit testing, Criterion, Bitbucket, AWS S3, Docker, Jira

Certifications: Google Data Analytics Professional Certificate (Coursera)

Projects

GreatReads | JavaScript, React, Next.js, TailwindCSS, Supabase, node.js

[Live Site](#) | [Github](#)

(A full-stack Goodreads clone that allows users to search, review, and save books while managing personalized reading lists.)

- Built a full-stack book discovery and tracking platform using React, Next.js, and Supabase, enabling users to browse 10,000+ books, track reading progress, and leave reviews.
- Optimized state management and user authentication, reducing redundant API calls by 30%, by integrating Redux for global state handling and leveraging Supabase for authentication in a Next.js environment.

TumblyTube | JavaScript, Ruby on Rails, React, Redux, AWS, PostgreSQL, SASS

[Live Site](#) | [Github](#)

(A single page full stack clone of Youtube, allowing users to connect, browse/upload videos, like, and comment.)

- Integrated AWS S3 with Rails Active Storage, enabling scalable video storage while ensuring content security with AWS IAM policies, improving media retrieval speeds by 40%.
- Optimized database efficiency by reducing PostgreSQL tables by 25%, improving query performance by 30%, and eliminating redundant backend code with a many-to-many polymorphic Likes table for videos and comments.
- Engineered a scalable front-end architecture by developing a suite of custom React hooks, enhancing code reusability and maintainability, and reducing redundant state logic by 50%, leading to faster component

Work Experience

Queens College

New York, NY

STEM consultant

Aug 2024 – Present

- Delivered engaging computer science recitations on data structures, algorithms, Object-oriented programming (OOP) and computer science fundamentals to first- and second-year students (averaging 40 students per semester), resulting in a 30% improvement through targeted pre- and post-session assessments.
- Demonstrated team-collaboration by coordinating with stakeholders through regular meetings, ensuring the development of effective STEM support programs.

University at Buffalo

Buffalo, NY

Software Engineer Intern - Awarded the Innovative Leadership Award

Aug 2022 – Feb 2023

- Engineered a dynamic leaderboard using a Dockerized Flask microservice with MongoDB for real-time score aggregation, leveraging AJAX and SCSS UI to cut manual monitoring by 45%
- Participated in AGILE ceremonies such as sprint planning, daily stand-ups, and retrospectives, ensuring iterative and frequent delivery of new features.
- Tech stack: SCSS, Python, Docker, Mongodb