Merna Ahmed

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https://github.com/Mirnamo

EDUCATION

Bachelor of Science in computer science: University at Buffalo SUNY (UB), Buffalo NY USA, GPA: 3.8 / 4.0

HONORS / AWARDS

Dean's List, 2023-2024   Prestigious honors award for academic excellence issued by the University at Buffalo.

COURSES

- Systems programming
- Data structures and algorithms
- Computer architecture
- Applied Human Computer Interaction and Interface Design
- Technical communications for engineers

TECHNICAL PROJECTS

Finance management dashboard   **January 2025**

- Developed a Finance Budget Management Dashboard using Next.js for student budget tracking across multiple bank accounts.
- Integrated third-party tools like Plaid (bank data aggregation), Dwolla (secure money transfers), and Appwrite (user data management) for enhanced security.
- Implemented real-time debugging using Sentry to improve UX by detecting and resolving issues efficiently.
- Optimized SEO and performance by leveraging Next.js features for fast loading times and seamless navigation.
- Ensured secure user authentication and data protection through encrypted handling of SSNs, emails, and passwords.

Apple clone website   **June 2024**

- Applied Vite.js, React.js, and GSAP library to create a one-page clone of the Apple website using GSAP for 3D designs and React for a responsive website.
- Applied Netlify for website deployment, optimization, and data analysis.

PROFESSIONAL EXPERIENCE

Software engineer intern at QuattronKids   **January 2025 - Present**

- Designing user-friendly UX/UI interfaces to improve the user experience using HTML, CSS, and JavaScript.
- Translate design concepts into fully functional and responsive web pages.
- Developing marketing assets, including promotional visuals and videos.

IBM Z student ambassador   **September 2024 - Present**

- Promote IBM Zxplore platform for UB students.
- Host events for mainframe, systems programming, and AI.
- Attend IBM events, and speak at IBM events.
- Conduct IBM Z club on campus for a mainframe community.

Tutor at the University at Buffalo tutoring center   **August 2024 - Present**

- Tutor 50+ college students in calculus, computer science, and Korean courses.

Independent Researcher at the University at Buffalo   **July 2024 - January 2025**

- Develop a financial management application to manage user budgets from different bank accounts and transfer funds as well.
- Used tech stack is Next.js, Tailwind CSS, Appwrite, Plaid, and Chart.js.

VOLUNTEER EXPERIENCE

President of IBM Z club at the University at Buffalo   **December 2024 - Present**

- Promoted the IBM Zxplore platform to University at Buffalo students, increasing engagement with mainframe technologies.
- Organized and hosted events on mainframe computing, systems programming, and AI, fostering technical skill development.
- Represented the club at IBM-hosted events, delivering presentations and networking with industry professionals.
- Established and led an IBM Z community on campus.

Peer Mentor for women in science and engineering at UB   **August 2023, August 2024**

- Welcomed 25+ new women in STEM and managed an entire welcoming week orientation.