MOHAMMAD MUSTAFA AHMED

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EDUCATION:

University of Massachusetts, Boston

- Bachelor of Science in Computer Science (Expected May 2025)
- GPA: 3.5/4.0, Dean's List

EXPERIENCE:

IBS Software

Software Engineer Intern | May 2023 – August 2023

- Developed and optimized web and mobile applications for airline and travel management systems.
- Utilized JavaScript, HTML, CSS, and React to create responsive UIs, enhancing user experience for clients.
- Built back-end services using Node.js and integrated RESTful APIs, reducing data fetch time by 30%

Headstarter AI

Software Engineering Fellow | July 2024 – September 2024

- Developed and deployed multiple projects: a Gemini-integrated chatbot for company inquiries; a secure payment system using Stripe; and a MongoDB database for transaction management

UrWealth

Full-stack Developer | August 2024 – December 2024

- Architected a secure financial platform using MongoDB SCRAM-SHA-256 authentication and RESTful APIs, ensuring robust data protection
- Implemented JWT-based session management and access control, safeguarding sensitive financial transactions

UMass Boston

Technology Specialist |February 2023 – Present

- Engineered BeaconFlex, a video conferencing platform using Next.js, TypeScript, and Stream.io API that enables 16,000+ UMass students and faculty to create, join, and record meetings with features like dual camera support and playback functionality
- Led development of Beacon Pathway, a hackathon-winning app using Next.js, TypeScript, and GraphQL, featuring TensorFlow.js-powered personalized campus recommendations that increased student engagement by 25%
- Designed and Developed a Gemini-powered chatbot for Canvas LMS, reducing student support response times by 60%
- Developed responsive website for the Technovator using Next.js, TypeScript and Tailwind CSS, boosting department engagement by 40%

SKILLS:

- **Programming Languages:** Python, Java, JavaScript, TypeScript, HTML, CSS
- **Technologies/Frameworks:** React.js, Next.js, Node.js, Express.js, SDLC (Software Development Lifecycle), Tailwind CSS
- **Libraries:** OpenCV, Pandas, NumPy, TensorFlow, Matplotlib
- **Developer Tools:** Git & GitHub, Visual Studio, IntelliJ, Docker, AWS, MySQL, SQLite, Linux OS, Vercel, MS Office Suite
- **Interpersonal Skills:** Growth Mindset, Problem Solving, Data Driven, Communication, Collaboration

AWARDS & COMPETITIONS:

- **Paul English AI Hackathon Winner (2024)** – First Place & People's Choice Award
- **IEEE MIT Undergraduate Research Technology Conference (URTC '23)** – Presented research on Autonomous Drone Delivery Systems
- **JP Morgan Code for Good Hackathon (2023**) – Built nonprofit solution using Next.js, TypeScript and advanced through technical rounds in 24-hour hackathon