ARITA ZAMAN

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Education

Michigan State University, College of Engineering, Honors College Spring 2028
Bachelor of Science, Computer Science
- GPA: 3.9/4.0
- Executive Board Secretary of Women in Computing, Member of Human Rights Data Science Lab, Member of AI Club
- Relevant coursework: Discrete Mathematics, Information Management and the Cloud, Web Design and Development

Skills

Python | Java | Swift | SQL | HTML & CSS | VS Code | GitHub | MS Excel | Figma | Adobe Illustrator

Projects

User Management and Authentication System October 2025
- Developed a Flask-based web server integrated with a SQLite database to handle user registration, authentication, and account management.
- Implemented secure password hashing (SHA-256 with salts) and custom JSON Web Token (JWT) generation for session-based authorization.
- Designed endpoints for user creation, login, information viewing, password and username updates, and database clearing.
- Ensured database security and integrity through parameterized SQL queries to prevent SQL injection attacks.
- Tested the system using automated Python scripts sending HTTP requests to validate all endpoints and authorization logic.

Undergraduate Research - Effect of Geometry on Structural Deflections & Internal Forces Aug 2024 – Apr 2025
- Conducted undergraduate research exploring how beam geometry affects structural performance in 3D-printed components.
- Designed and fabricated custom beams using SolidWorks and polylactic acid (PLA) via additive manufacturing.
- Performed three-point bending tests using an Instron Model 5982; analyzed force vs. deflection data using Digital Image Correlation (DIC).
- Collaborated with a team of three peers and faculty advisors to plan, test, and refine beam designs.
- Presented findings at the 2025 University Undergraduate Research and Arts Forum (UURAF).

Prepify June 2024
- Pitched, planned, and developed a mobile app connecting students to free test prep resources
- Learned and utilized Swift, SwiftUI, and Xcode to create an intuitive user interface
- Collaborated with 3 peers throughout the entire process and actively used teamwork and problem-solving skills

Work Experience

Nordstrom Novi, MI
Commission Sales Associate in Dress Department June 2024 – August 2024
- Demonstrated in-depth product knowledge to deliver personalized product recommendations by quickly assessing customer needs, reflecting strong user-centered thinking and adaptability.
- Strengthened problem-solving and time management skills by navigating inventory challenges and resolving customer concerns in real time.

Awards

MSU Distinguished First-year Scholarship: Runner-up in Alumni Distinguished Scholarship 2024