

Mazin B. Salah

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Education

B.S. Computer Science
North Carolina State University

May 2026
Raleigh, N.C.

Experience

Assistant Tech Director, *Yumna Jewelers*

December 2024 - Present

- Contributed to the design and development of the company website, enhancing user experience.
- Collaborated with the marketing team to implement website optimization strategies, reducing complexity and improving accessibility.
- Developed a user-friendly chatbot to streamline customer interactions and support.

Coding Instructor, *Muslim Youth & Community Center*

May 2024 - Aug. 2024

- Created Python and block-based coding curriculums, teaching a total of 40+ students.
- Led interactive workshops for children and adults of various backgrounds, ensuring concepts were accessible and engaging.
- Designed activities to reinforce programming skills and problem-solving.
- Managed class logistics, including scheduling and participant coordination.

Skills

- **Languages:** Java, Python, C, JavaScript, SQL, Assembly, HTML/CSS
- **Software:** Experience with Jenkins, JUnit Testing, GitHub, MySQL, Postman, Google Cloud's Dialogflow
- **Tools:** Eclipse, Visual Studio Code, GDB, Maven, React, OWASP ZAP, OWASP Dependency Checker
- **Core Competencies:** System Testing, Unit Testing, Debugging, Algorithm Design, Program Design, Leadership/Team Management, Teamwork, Communication
- **Security:** Web exploitation techniques, including SQL Injection, XSS, CSRF, SSRF, and security misconfigurations

Projects

Electronic Arts - Software Engineering Virtual Experience Program on Forage

- Proposed a new feature for a football game and wrote a Feature Proposal describing it to other stakeholders.
- Built a class diagram and created a header file in C++ with class definitions for each object.
- Patched a bugfix and optimized the Sims 4 codebase by implementing an improved data structure.

Personal Portfolio Website

- Developed a responsive portfolio using HTML, CSS, and JavaScript to showcase projects and experience.
- Implemented a dynamic "Hacker Mode" toggle using JavaScript and Local Storage for an interactive theme.
- Deployed using GitHub Pages, ensuring mobile responsiveness and fast performance.

Data Structures Program

- Applied algorithms to solve computational problems, improving performance and scalability.
- Implemented and tested a variety of algorithms and data structures, including positional lists, stacks, queues, maps, trees, graphs, priority queues, and hash tables for practical applications.

User Activity Log Manager

- Implemented a system to process and analyze user activity logs for Pack Health Program.
- Utilized custom data structures and sorting algorithms to enhance data management and retrieval efficiency.
- Built features for identifying trends, grouping logs, and analyzing hourly activity.

Leadership & Team Management

Vice President – NCSU Muslim Student Association

August 2024 – Present

- Coordinated day-to-day operations, fostering team collaboration and efficient task execution.
- Led initiatives with external organizations to amplify community outreach and activism.

Outreach Chairman – NCSU Muslim Student Association

February 2023 – August 2024

- Directed 30+ members across 3 teams, driving Islamic and service outreach efforts.