Rita Aziz

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https://github.com/ritaazizz Personal Website: https://ritaazizz.github.io/Landing-Page/

Education

George Mason University, *Computer Science, B.S.* 08/2022 – present
Fairfax, VA

- Dean's List
- Good Standing
- Mason Distinction Scholarship Recipient
- GPA: 3.68/4.00

Relevant Coursework: Object-oriented Programming, Low-Level Programming, Discrete Mathematics, Probability and Statistics for Engineers and Scientists, Data Structures, Computer Systems and Programming

Professional Experience

Software Research Intern, *Software.org* 09/2024 – present
Washington, DC

- Assisted the Software.org team with daily operations, including monitoring and reporting on virtual events
- Conducted research on emerging technology policy issues such as digital transformation, AI, data privacy, cybersecurity, and workforce development
- Reviewed literature, analyzed data, and synthesized findings to contribute to foundation publications and reports
- Updated internal databases and tracking documents
- Assisted with content development for internal and external communications by conducting research, drafting, and editing materials to promote key messages

Software Engineering Fellow, *Headstarter AI* 07/2024 – 09/2024
Remote

- Created and launched 5+ advanced AI applications and APIs utilizing NextJS and OpenAI
- Contributed with a team of 4 engineering fellows through the complete software development lifecycle
- Received mentorship and training from engineers at Amazon, Bloomberg, and Capital One on Agile methodologies, CI/CD practices, and Git version control enhancing team productivity and project quality
- Implemented cutting-edge solutions to complex challenges, optimizing application performance and user experience

Projects

Microbe Detection and Treatment Simulation, *Java | George Mason University | Fall 2024* 09/2024

- Developed a **Java** program to simulate the treatment of patients exposed to a deadly microbe, focusing on two different treatment scenarios
- Designed a system that detects infection likelihood through probabilistic testing and prioritizes patients based on test results using priority queues
- Implemented adjustable simulation parameters, such as infection rate, survival time, and treatment time, allowing for flexible testing of different scenarios
- Utilized Gaussian distributions to model survival times and infection probabilities, enhancing the accuracy of the simulation

AI Chat Bot, *Javascript, OpenAI, NextJS | Headstarter AI* 08/2024

- Created an AI-powered customer support system using **Javascript** to assist users with common queries and issues
- Developed a chatbot using **OpenAI's** language model to handle customer inquiries
- Built the front-end using **NextJS** to ensure fast performance and efficient server-side rendering
- Integrated APIs to enhance functionality and provide real-time support to users

Order Management System, *C | George Mason University | Fall 2023* 11/2023

- Developed a **C program** to implement a comprehensive order management system, enabling efficient management of store orders, including the ability to add, delete, display, and modify orders
- Designed a user-friendly, menu-driven interface to facilitate seamless user interaction and execute functions based on user input
- Implemented robust functionality to manage customer information, order items, and overall order tracking within the system
- Utilized a linked list data structure to optimize the storage and management of orders and associated items, ensuring efficient processing and scalability

Technical Skills

Programming Languages: Python, Java, C, HTML, CSS, Javascript

Technologies: OpenAI, NextJS, NodeJS, ReactJS, Firebase

Software Tools: Excel, Outlook, PowerPoint, Teams, Word

Operating Systems: Linux, Unix, Windows, MacOS

Certificates: HTML for Programmers (LinkedIn), CSS for Programmers (LinkedIn), AT&T 2024 Technology Academy