Rita Aziz

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Education

George Mason University, *Computer Science, B.S.*   08/2022 — present
- Dean's List   Fairfax, VA
- Good Standing
- Mason Distinction Scholarship Recipient
- GPA: 3.68/4.00

<u>Relevant Coursework</u>: Object-oriented Programming, Low-Level Programming, Discrete Mathematics, Probability and Statistics for Engineers and Scientists, Data Structures, Formal Methods and Models

Technical Skills

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

Technologies: OpenAI, NextJS, AWS, StripeAPI, ReactJS, Firebase

Operating Systems: Linux, Unix, Windows, MacOS

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

Projects

AI Rate My Professor, *RAG, OpenAI, Vectors*   08/2024
Built a review aggregaton platform where students can rate and review their professors:
- Developed an AI tool using **OpenAI** to analyze and rate professors based on student reviews
- Built a user-friendly interface with **ReactJS** and **NextJS**, allowing students to easily search for and view professor ratings
- Will implement a **Vector** database to store and retrieve reviews based on similarity and relevance
- Implemented a **Robust Automated Grader (RAG)** system using machine learning algorithms to accurately evaluate and grade student ratings

AI Flashcards & Stripe, *OpenAI, Authentication Payment Gateway, Server-side programming*   08/2024
Developed a SaaS application for creating and managing flashcards with paywall feature for premium content:
- Designed an AI-powered flashcard application using **OpenAI's** to generate personalized study content and recommendations
- Implemented secure user authentication using **Auth0**, including multi-factor authentication to enhance security
- Integrated **StripeAPI** to handle subscription payments, manage billing, and track transactions securely
- Developed the front-end with a focus on user experience, incorporating interactive and responsive design elements using modern web development technologies

AI Customer Support, *OpenAI, NextJS, AWS, EC2, Lambda*   08/2024
Created an AI-powered customer support system 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
- Deployed the application on **AWS** for scalable and reliable cloud infrastructure, utilizing AWS services like **EC2** and **Lambda**
- Implemented conversantional flows and train the AI to provide accurate and helpful responses
- Included a fallback mechanism to transfer complex queries to human agents

Pantry Tracker, *React, NextJS, Material-UI, Firebase*   07/2024
Built an application to manage and track pantry items, ensuring awareness of stock levels:
- Developed a user-friendly interface to add, update, and delete pantry items
- Utilized **NextJS** for server-side rendering, ensuring fast performance and optimized SEO.
- Integrated **Firebase Firestore** for real-time database management, enabling instant updates to pantry items
- Utilized **Material-UI** for styling and enhancing user experience

Professional Experience

Software Engineering Fellow, *Headstarter AI*   07/2024 — present
- Created and launched 5+ advanced AI applications and APIs utilizing NextJS, OpenAI, Pinecone, and StripeAPI, achieving a 98% accuracy rate as validated by feedback from 1,000+ users
- Managed and guided a team of 4+ engineering fellows through the complete software development lifecycle, employing MVC design patterns to ensure scalable and maintainable code
- Received mentorship and training from engineers at Amazon, Bloomberg, and Capitol One on Agile methodologies, CI/CD practices, Git version control, and microservice architecture, enhancing team productivity and project quality
- Implemented cutting-edge solutions to complex challenges, optimizing application performance and user experience while adhering to best practices in software engineering