WALEED A. RAZA

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WORK EXPERIENCE

Computer Science - Technology Intern | Freddie Mac – McLean VA   Upcoming Summer 2024
- o   Will engage in Agile software development, application design, and problem-solving.
- o   Expected to gain experience in AWS Jenkins, Bitbucket, Jira, Confluence, Atlassian, Angular JS, Java Springboot.

AWS Support Intern | ClayDesk New Jersey - Remote   June 2023 - August 2023
- o   Assisted in migrating on-premises infrastructure to AWS Cloud, and estimated migration costs using a TCO calculator. Utilized CloudFormation templates for resource provisioning. Worked with CI/CD tools for code deployment.
- o   Managed IAM users, groups, and roles in an AWS Cloud Platform, Configured EC2 instances, security groups, and networking components. Implemented fault-tolerant and scalable AWS infrastructure.

Computer Science Club Founding President | George Mason University   Since April 2023
- o   Organized and hosted a wide range of events, including workshops and coding sessions pertaining to NLP's Machine Learning, Algorithmic Foundations, Quantum Computing, Data Science, Software Engineering, as well as guest speaker talks from leading industry professionals from the likes of Microsoft, to provide valuable learning opportunities for members.
- o   Developed and managed strategic partnerships with industry professionals and companies to offer networking opportunities and industry insights to club members.
- o   Oversaw growth from zero to 400+ members, spearheading outreach, and organizational infrastructure.
- o   https://mason360.gmu.edu/gmucs/home/

HackFax Hackathon Lead Organizer | GMU Cs Club   October 2023 -February 2024
- o   Responsible for coordinating/overseeing GMU's largest upcoming hackathon in 2024, organized with Major League Hacking.
- o   Developed the hackathon from inception with the computer science department and club to an upcoming launch.
- o   Participated in development of website from scratch, event infrastructure, sponsor outreach.
- o   http://hackfax.com/

PROJECTS & SKILLS

Projects: Please navigate to my site see what I've worked on | Waleedraza.org

Hand-recognition shortcuts application using Computer Vision
- o   Built with Python's OpenCV, Media pipe, tkinter libraries.
- o   Shortcuts using hand motions detected by the camera rather than key commands, user can use hand motions for copy function, move desktop, open browser, move between screens, etc.
- o   Uses OpenCV Computer Vision library to operate, integrated via tkinter framework into an application.

Medical Assistance Accessibility tool – Made for Johns Hopkins Hackathon
- o   Built with chatGPT API, HTML, CSS, JS, Voice recognition - webspeechkit library, google cloud.
- o   Tool which can listen to 30 min plus of medical information or conversation and using trained data models, summarizes complex medical info to layman's terms with the help of AI infrastructure, additionally simulates a conversation with a physician, integrated into a webpage in form of tools.
- o   Created to help members of marginalized groups such as the blind, illiterate, and disabled bridge the communication gap in the medical industry, and accessibly understand medical information clearly.

Patriot Assist - Natural Language Processing Course Scheduler
- o   Built with SKLearn, K-means & mean shift data clustering, tSNE, HTML, CSS, JS, NLTK Natural language processing toolkit was imported as a library to develop a python Algorithm also including scrapy and spacy libraries to scrape, format, and evaluate data.
- o   Created to help the students of George Mason gain insight on courses they should take based on their input. User data is processed via sentiment analysis from natural language processing and matched to relevant data clusters to filter correct information.
- o   Students can enter how they feel about a subject, what they're interested in, or what they would like to pursue, and the application gives recommendations of relevant courses pertaining to this information, in a chatbot format.

Skills
- o   **Back-End Dev** | Python, Java, C/C++
- o   **Front-End Dev** | HTML, CSS, JavaScript, Django, React
- o   **Database** | SQL, Mongo DB
- o   **Development Tools** | GitHub/git, Docker
- o   **Other |** JUnit, AWS Cloud, Google Cloud platform, Blender, Unix

EDUCATION

George Mason University Computer Science BS, Data Science Minor   August 2022 - May 2025
- o   Relevant Coursework includes:
- o   Intro to Computer Programming (taught in Python), Object-Oriented Programming (OOP taught in Java), Data structures & Algorithms (DSA taught in Java), Low-level Programming (LLP, taught in C), Discrete Mathematics, Calculus