OMAR AL-JAAFARI

Salt Lake City, UT

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EDUCATION

Westminster University (pka Westminster College) – Salt Lake City, UT
Bachelor of Science in Computer Science, Applied Mathematics Minor – **4.0 GPA**
EXPECTED GRADUATION DATE: MAY 2024

Relevant Coursework: Software Engineering, Web Apps, Data Science with Python, AI, Linear Algebra, Statistics
Recipient of Arts and Sciences Outstanding Student of the Year Award for Computer Science

WORK EXPERIENCE

Software Engineer Intern — *Idaho National Laboratory*
SEPTEMBER 2023 - PRESENT
- Developing Docker environment for CI/CD strategy to support pytest regression testing.
- Capturing Minicom radio communication using Bash script to better observe any errors.
- Partnering with a mentor to convey project goals and track progress effectively.

PROJECTS

Utah High School Computer Science Dashboard — *Research Project*
JUNE 2023 - DECEMBER 2023
- Updated web dashboard utilizing React, TypeScript, and D3.js for an NSF-funded project.
- Studied code and new concepts independently, leading to 10 significant fixes to the usability of the dashboard.
- Improved display of Utah high school computing enrollment statistics on mobile devices, leading to positive feedback.

Classroom Databases — *Summer Research Project*
JUNE 2022 - JULY 2022
- Built two relational databases using MySQL, Google Sheets, Python, and external data with a team.
- Found real-world data independently, converted it to relational databases for class examples, met 90% of team goals.
- Delivered two presentations on the databases and their practical use to a general audience.

Other Projects
- iOS Application – Senior Capstone Independent Project (August 2023 - April 2024)
Utilized Swift, SwiftUI, and Core Data to transcribe speech into digital and editable notes.
- Educational Math Game – Software Engineering Class Team Project (January 2023 - April 2023)
Implemented feature in Unity and C# to generate math challenges, capture answers, and reward correct responses.

OTHER EXPERIENCE

Disability Services & Testing Center Student Employee — *Westminster University*
JANUARY 2022 - SEPTEMBER 2023
- Maintained confidentiality of office communications.
- Created 3D-printed map of campus for a visually-impaired individual.
- Preserved in-person, phone and email operations on days with no other staff in office.

SKILLS

Python, Java, JavaScript, TypeScript, React, HTML, CSS, NumPy, pandas, Swift, C#, Unity, MySQL, C
Agile software development, Git, GitHub, Linux, Bash, pytest, Django, Docker, Jenkins, CI/CD, Microsoft Office