

OMAR AL-JAAFARI

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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, Networks, Artificial Intelligence (AI), Graphics, Linear Algebra, Statistics

WORK EXPERIENCE

Software Engineer Intern — *Idaho National Laboratory*

SEPTEMBER 2023 - PRESENT

- Developing Docker environment for continuous integration and delivery 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 - present)
Utilizing 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 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, HTML, CSS, React, C#, MySQL, Unity, C
Agile software development, Git, GitHub, Linux, NumPy, pytest, Docker, Jenkins