

Mohammed Al-Riyami

+1 (608)960-0543 | mohammed.alriyami2003@gmail.com | Madison, Wisconsin 53703

EDUCATION

- ❖ **Bachelor of Science:** Computer Science, University of Wisconsin - Madison, Madison WI.
GPA: 4.0, Spring 2024 - Dean's List.
 - Relevant Coursework: CS300, CS400(Java), CS354(Machine Org.), CS540(Intro to AI).
- ❖ **English Language Program:** University of Pennsylvania, Philadelphia, PA May 2022.

EXPERIENCE

- ❖ **IT Intern, Occidental Petroleum (Oxy), May 2024 – August 2024**
 - Developed a PowerShell script to automate data organization into Excel sheets, decreasing manual processing time by about 50% and increasing data accuracy.
 - Utilized Power BI to create visually appealing dashboards, speeding up decision-making by providing real-time data insights and accelerating report generation.
 - Assisted in imaging PCs, enabling BitLocker, and deploying machines to end users.
 - Adhered to structured procedures for troubleshooting and resolving user machine issues.
- ❖ **Research Assistant, Ané Lab, UW-Madison, May 2023 – December 2023**
 - Prepared plant tissue samples for research experiments, following standardized protocols.
 - Collaborated with a team to streamline sample processing, reducing processing time by 20%.
 - Maintained meticulous records of sample preparation processes, ensuring accuracy.
 - Actively contributed to research discussions and data analysis during team meetings.

PROJECTS

- ❖ **Car Organizer (Java)**
 - Implemented a Red-Black Tree data structure for efficient car data organization.
 - Developed rotation methods for stability and efficient insert and remove procedures to maintain tree properties.
 - Ensured code reliability and correctness through rigorous JUnit testing.
 - Demonstrated proficiency in data structures, algorithms, recursion, and object-oriented programming (OOP).
- ❖ **Password Cracker (Python)**
 - Developed a local password-cracking system using a Binary Search Tree (BST).
 - Optimized code for efficiency and maintained comprehensive documentation.
 - Collaborated within a team, utilizing version control (Git) for code management, including branch management, pull requests, and resolution of merge conflicts.
- ❖ **TECHNICAL SKILLS**
 - **Programming Languages:** Java, Python, PowerShell. **Tools:** Git/GitHub, Microsoft Office.