Mohammed Al-Riyami

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**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.