

# Seyar Hazrat

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## EDUCATION:

**BSc in Computer Science** – University of Calgary

2022 – 2026

- Third year Computer Science student with Software Engineering internship experience.
- Relevant Coursework: Data Structures & Algorithms, Theoretical Foundations in CS, Software Development, Calculus I, Logic I, Discrete Math, Linear Algebra, Cybersecurity I, Software Engineering.

## INTERSHIP EXPERIENCE:

**SUNCOR ENERGY - SOFTWARE INTERN**

September 2023 – August 2024

- Programmed and implemented multiple **SAP** automation scripts that re-organized and optimized planning and maintenance practices and databases, leading to a **55%** reduction in processing times.
- Designed a program to verify vendor input by integrating multiple databases ensure accurate billing for offsite work preventing misallocations to cost centers, saving **\$700K** annually.
- Organized Big Data file transfers of multiple plant databases and integrated them into the Fort McMurray plant, which allowed for **70%** recovery of corrupted data after a cyber-security breach.

## CLUBS:

**COMPETITIVE PROGRAMMING – SOFTWARE TEAM LEAD**

January 2022 – January 2023

- Directed our team of **8** programmers to solve **15** math-based coding challenges focusing on applications of linear algebra and numerical methods resulting in **first place** out of 5 teams.
- Presented the solutions to other teams to discuss optimizations of using different data structures and algorithms to conclude on a most efficient solution.
- Delegated team problems to ensure that our problems were solved within the allotted time frames for each of the coding problems, resulting in **100%** completion of all the problems.

**GOOGLE DEVELOPERS CLUB - SOFTWARE STUDENT**

January 2022 – January 2023

- Coached by alumni mentors on the upcoming implementations of cutting-edge technologies in the AI/ML industries.
- Followed mentorship advice to begin integrating artificial intelligence and machine learning into my database classifications resulting in **50%** more accurate string classification techniques.
- Communicated integration of future cloud platforms and learning resources from the alumni to **500** students throughout the club fair to ensure our university teams are aware of new technologies.

## PROJECTS

**Data Structures and Algorithms Visualization - Application Developer**

May 2024 – July 2024

- Developed an interactive application that visually animated and demonstrated **10** different algorithms and **5** data structures, aimed at enhancing University Students understanding of fundamental Computer Science concepts and theories.
- Implemented customizable features, allowing users to adjust sample sizes (**1-500**) and manipulate animation speed (**1-100%**) to observe the effects of algorithmic behavior in real-time.
- Integrated real-time process descriptions into each animation, providing on-screen explanations to guide users through the steps of each algorithm or data structure as it was visualized, enhancing understanding and learning efficiency.

## TECHNICAL SKILLS:

- **Programming:** C, C++, C#, Python, JavaScript, Java, Go, Node.js, SQL, Perl, VBA, Ruby, MATLAB, Rust
- **Softwares:** SAP, Git, GitHub, Eclipse, Jupyter, Fusion 365, MongoDB, MySQL, AWS, PowerBI, PostgreSQL
- **Tools:** Node.js, React, Angular, Flask, Django, Pandas, NumPy, AutoCAD, SolidWorks, OpenCV, Queries
- **Other:** Robotics, MS Suite, Adobe Suite, Tableau, ArcGIS, Azure, Artificial Intelligence, Excel, VBA, Gitlab

## COMMUNICATION/INTERESTS:

**Interests:** Soccer, Traveling, Robotics, Hiking, Board Games, Video Games

**Languages:** Farsi, Dari, Persian, English