

# Shahriar Bin Zaman

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## EDUCATION

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### University of Calgary

*Bachelor of Science* in Computer Science, minor in Data Science

Calgary, Alberta

*Expected 2025*

## RELEVANT COURSEWORK & SKILLS

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**Coursework:** Object Oriented Principles, Data Structures, Design and Analysis of Algorithms, DBMS

**Skills:** OOP, Python, Java, C, C++, C#, R, Arm Assembly, Git, Power BI, Tableau, SQL, PHP, HTML, CSS, JavaScript, Basic React.js, Junit testing, ASP.NET, MVC Design, Libraries: NumPy, Pandas

## WORK EXPERIENCE

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### Alberta Health Services – Clinical Services Software Development Team

January 2023 - Present

*Software Developer Coop*

- Developing web-based applications for CTC and PEAS projects using **ASP.NET**, **OOP C#**, and **MVC** designs
- Streamlining PEAS project's database design, reducing data redundancy by 30% using **MS SQL Server**.
- Utilizing design patterns to reduce code duplication by 26%.
- Contributing to development of user-friendly web-based interface for CTC project, resulting in 40% increase in user adoption and satisfaction using **Bootstrap** and **JavaScript**.
- Profiling and optimizing **SQL** queries to improve database performance, reducing query execution times by 37%.
- Managing source control using **Azure TFS** to ensure code quality and version control.

### University of Calgary – Visualization and Graphics Group (VISAAG) Lab

May 2022 - August 2022

*Data Science Student Intern*

- Collaborated with 1 supervisor and 2 post-doctorate students to analyse the trajectory of Covid 19 in Canada.
- Acquired 10,000+ data from different websites by python web scrapping using **Pandas**.
- Automated the data collecting process in **GitLab** repository by executing **.gitlab-ci.yml** file which improved the efficiency by 30%.
- Incorporated **Python** in **Tableau Prep**, which saved 50 minutes of work every day.
- Optimized the raw data cleaning code by publishing the data source to **Tableau Server** directly.
- Visualized the processed data through graphs in **Tableau** and **R** which improved analytical insights by 27 percent.
- Published interactive analytics and visualizations in a frontend webpage built with **HTML** and **CSS**.

## PROJECTS

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### Flight Paths

- Designed an adjacency list to store airline data using ArrayList and LinkedList.
- Performed depth first search to find all possible paths between two cities
- Implemented Dijkstra's algorithm to find shortest path between two cities based on cost and time associated.
- Skills required: Java, Object Oriented Programming, Data Structures and Algorithms

### Gym Management System

- Built Gym Management System with PHP, MySQL, HTML, CSS, and JavaScript for efficient administration.
- Enhanced user experience with responsive design using JavaScript and Bootstrap, boosting member retention rate.
- Optimized data storage and retrieval using MySQL for seamless scalability and performance.
- Skills Required: PHP, CSS, HTML, SQL, JavaScript, Bootstrap

**INTERESTS AND HOBBIES:** Member of Counter Strike Global Offensive (Video Game) Bangladesh Team