

Mohammad Shahriar Hossain

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github.com/hossain-shahriar

EDUCATION

University of Alberta – terms completed: 6 / 8

Sept 2021 – May 2025

B.Sc. Computing Science (Specialization in Software Practice)

• **Important courses:** Predictive Business Analytics, Operations Management, Introduction to Machine Learning, Reinforcement Learning Specialization, Search and Planning in Artificial Intelligence, File and Database Management (SQL & MongoDB), Introduction to Software Engineering, Computer Architecture I

ACADEMIC PROJECTS

Edmonton Housing Data Analysis: Utilized SQL and Python for comprehensive data cleaning and analysis, culminating in the development of an interactive Power BI dashboard. The dashboard enables filtering of housing options by price, room numbers, house size, and community, offering valuable assistance to newcomers and international students in Edmonton by simplifying their housing search. ([link](#))

Predictive Modeling and Analysis of Traffic Accidents: Employed data-driven models such as KNN, LDA, and Random Forest to analyze road accidents and predict injury severity based on variables like road type, time of day, and weather conditions. This analysis helps drivers and passengers take informed precautions, enhancing road safety and contributing to more effective traffic management strategies. ([link](#))

EXPERIENCE

Software Developer ([Sensilimage Technologies Ltd.](#))

Edmonton, AB | Feb 2024 – Present

- Developed a user-friendly Python (Tkinter) GUI on a Raspberry Pi 4 Model B for the main display unit in an embedded system, and pioneered the integration of machine learning.
- Gained expertise in enhancing product functionality and user experience through innovative technology solutions, while learning to effectively merge software development with machine learning applications in embedded systems.

Tech Solutions Advisor & Omni-Channel Specialist ([Best Buy Canada](#))

Edmonton, AB | May 2023 – Sep 2023

- Enhanced customer understanding of over 150 products, significantly increasing informed purchases and developed targeted sales strategies that raised accessory upselling by 20%.
- Enhanced my skills in customer engagement and sales strategy development, learning how to analyze consumer behavior to drive sales and improve customer service.

IT-Support Intern ([The City Bank Limited](#))

Dhaka, Bangladesh | May 2022 – August 2022

- Built over 30 custom computers for optimal performance and resolved more than 100 networking issues using AnyDesk to enhance system reliability.
- Developed technical problem-solving skills and an in-depth understanding of computer hardware and network troubleshooting, which are essential for IT support roles.

Resident Assistant ([University of Alberta, Residence Services](#))

Edmonton, AB | Sep 2021 – April 2022

- Promoted equity, diversity, and inclusivity through regular community-building activities and responded effectively to various student issues and emergencies.
- Learned valuable interpersonal and crisis management skills, enhancing my ability to support and lead in a community setting while ensuring student safety and well-being.

SKILLS/EXPERTISE

• **Academic Expertise:** Data analysis, Data Science, Machine Learning (Supervised & Reinforcement Learning), Artificial Intelligence, Software Development, Embedded System Design, Web Application Development

• **Software:** Microsoft office, Power BI, Tableau, Figma, Lucidchart, Adobe Creative Cloud (illustrator, Photoshop), AnyDesk

• **Programming Language:** R (dplyr, tidyr, ggplot2, tensorflow, rpart, tidyverse, randomForest), Python (numpy, pandas, matplotlib, seaborn, scikit-learn, tensorflow), SQL, MongoDB, C/C++/C#, Lisp, Prolog, Assembly (RARS RISC-V), Java, Julia, HTML, CSS, Javascript, MATLAB

• **Programming Tools:** Jupyter Notebook, Git, Linux, Android Studio, iOS, Raspberry Pi, Visual Studio, Node.js

VOLUNTEERING

Communications Director (International Students' Association, UAlberta)

Edmonton, AB | July 2021 - Present

- Strategically organized International Students' Day and led impactful advocacy campaigns to oppose tuition increases, directly engaging with university policy makers and stakeholders.
- Enhanced leadership and communication skills through the coordination of large-scale events and advocacy efforts, learning to effectively negotiate and advocate for student interests in a complex educational landscape.

CERTIFICATES & TRAININGS

Alberta Class-5 Driver's License (GDL)

Edmonton, AB | August 2023 - November 2024

WHMIS (Workplace Hazardous Materials Information System) Training

Edmonton, AB | May 2023