

Mohammad Shahriar Hossain

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UNIVERSITY OF ALBERTA

Department of Computing Science

EDUCATION

University of Alberta – Class of 2025

Terms completed: 6/8

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 (Android Development), Computer Architecture I

SKILLS/EXPERTISE

Language: English, French, Bangla, Hindi, Urdu

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: C/C++/C#, Lisp, Prolog, Assembly (RARS RISC-V), Java, R, Python (Numpy, Pandas, Scikit-Learn, Matplotlib, Tkinter), SQL, MongoDB, Julia, HTML, CSS, Javascript, MATLAB

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

ACADEMIC PROJECTS (<https://hossain-shahriar.github.io/>)

- **Edmonton Housing Data Analysis:** Executed an end-to-end data project involving SQL and Python for meticulous data cleaning and analysis, followed by the creation of an interactive Power BI dashboard to visualize trends and insights in the Edmonton housing market. ([Link](#))
- **Machine Learning Concepts:** A series of Jupyter notebooks illustrating key machine learning techniques, such as gradient descent, decision trees, logistic regression, with Python. ([Link](#))
- **Data Cleaning & Analysis in C Programming:** Implemented a C programming project that processes a CSV dataset, performing data cleaning and processing to produce statistics and sorting based on user input. ([Link](#))
- **Operations Management:** Utilized Microsoft Excel for advanced modeling and forecasting. Conducted Monte Carlo simulations for data analysis. ([Link](#))
- **Sorting Visualizer:** Developed an assembly program using RISC-V RARS that sorts a given array and visualizes it with GLIR (Graphics Library for RISC-V). ([Link](#))
- **Expense Tracker Android App:** Engaged in Android development to build "ExpBook", an Expense Tracker App designed to track household expenses. ([Link](#))

EXPERIENCE

Embedded Software Developer ([Sensilmage Technologies Ltd.](#))

Edmonton, AB | Feb 2024 – Present

Developed a Python (Tkinter) GUI on Raspberry Pi 4 Model B for the main display unit in the embedded system.

Pioneered machine learning integration into embedded systems, boosting startup's innovation in technology products.

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

Edmonton, AB | May 2023 – Sep 2023

Enhanced customer product understanding for 150+ products, boosting informed purchases.

Developed sales strategies, increasing accessory upselling by 20% through customer insights.

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

Dhaka | May 2022 – August 2022

Built 30+ custom computers for optimal client performance and satisfaction.

Resolved over 100 networking issues using AnyDesk, improving system reliability and connectivity.

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

Edmonton, AB | Sep 2021 – April 2022

Promoted equity, diversity, and inclusivity through weekly meetings and group activities.

Responded to student issues and safety concerns, including lockouts, alcohol overdose, first aid, and after-hour services.

VOLUNTEERING

Communications Director ([International Students' Association, UAlberta](#))

Edmonton, AB | July 2021 - Present

Organized International Students' Day and spearheaded advocacy campaigns against tuition hikes.

CERTIFICATES & TRAININGS

Alberta Class-5 Driver's License (GDL) || Standard First-Aid and CPR Training (St Mark James Training) || Suicide Prevention Training (LivingWorks) || Naloxone Training (Students' Union, University of Alberta) || WHMIS Training (University of Alberta, Chemistry Department)