

Mohammad Shahriar Hossain

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EDUCATION

University of Alberta

Edmonton, AB

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

Expected Graduation: Dec 2025

Relevant Coursework:

- Predictive Business Analytics
- Machine Learning I
- Reinforcement Learning Specialization
- Search and Planning in Artificial Intelligence
- File and Database Management (SQL & MongoDB)
- Software Engineering Specialization
- Computer Architecture I
- Operations Management

SKILLS/EXPERTISE

Academic Expertise: Software Development, Data Analysis, Data Science, Machine Learning, Artificial Intelligence

Tools and Software: Office 365, Power BI, Tableau, Linux, Android Studio, iOS, Visual Studio Code, Git, GitHub, GitLab, Raspberry Pi, Figma, Lucidchart, Adobe Creative Cloud (Illustrator, Photoshop), Jupyter Notebook

Programming Languages: **SQL**, **MongoDB**, **Python** (Django, Flask, scikit-learn, tensorflow, numpy, pandas, matplotlib, seaborn, pyqt, tkinter), **JavaScript** (React.js, Next.js, Node.js, Tailwind CSS), **TypeScript**, **C**, **C++**, **C#**, **Java**, **HTML**, **CSS**, **R** (dplyr, tidyr, ggplot2, tensorflow, rpart, tidyverse, randomForest), **Lisp**, **Prolog**, **Assembly** (RARS RISC-V), **Julia**

Cloud Platforms and DevOps: AWS, Azure, Google Cloud, Docker, Kubernetes, Jenkins, Travis CI, GitHub Actions

EXPERIENCE

Software Developer Co-op

May 2024 – Present

SensiImage Technologies Ltd.

Edmonton, AB

- Managing and maintaining the frontend and backend of the company's web application using cloud computing and DevOps principles, including infrastructure maintenance. Performing data cleaning, analysis, visualization, and applying machine learning models for predictive analytics to support informed decision-making and improve product performance.
- Developing and optimizing the Graphical User Interface for the display module while handling software and hardware troubleshooting to ensure seamless product functionality and user interaction.

Omni-Channel Specialist

May 2023 – Sep 2023

Best Buy Canada

Edmonton, AB

- Enhanced customer understanding of product features and benefits, contributing to a 15% increase in customer purchase decisions.
- Developed targeted sales strategies that not only optimized product placements but also led to a notable increase in accessory upselling, with an average of 30 additional units sold per month.

PERSONAL PROJECTS

AnonFeed FullStack Social Media Web App | *Next.js, TypeScript, MongoDB, Tailwind CSS*

[Link](#)

- Designed to facilitate anonymous feedback, enhancing honest communication and community engagement. Pivotal for users seeking a secure platform to share and receive candid feedback without the fear of being identified.
- Utilized Next.js for both frontend and backend using API routes, TypeScript, Tailwind CSS, React.js, npm, zod for schema validation, bcryptjs for password hashing, next-auth for authentication, JWT for token handling, axios for API requests, and shadcn for component library.

Edmonton Housing Data Analysis | *SQL, Python, Power BI*

[Link](#)

- Assists newcomers and international students in Edmonton in finding ideal housing through a dashboard with filters for price, room numbers, house size, and community.
- Utilized SQL and Python for data cleaning and analysis; employed Power BI for visualization.

Predictive Modeling and Analysis of Traffic Accidents | *R (ggplot2, dplyr, rpart, tidyr, randomForest)*

[Link](#)

- Predicts accident severity using variables such as weather conditions, road type, and time of day, enhancing road safety and traffic management.
- Employed R programming, utilizing predictive models like KNN, LDA, and Random Forest.