

# 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, SAP (ABAP, HANA), Linux, Android Studio, iOS, 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), Assembly (RARS RISC-V)

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

## EXPERIENCE

### Software Developer Co-op

May 2024 – Dec 2024

*SensiImage Technologies Ltd.*

*Edmonton, AB*

- Managed and maintained the frontend and backend of the company's web application using cloud computing and DevOps principles, including infrastructure maintenance. Performed data cleaning, analysis, visualization, and applied machine learning models for predictive analytics to support informed decision-making and improve product performance.
- Developed and optimized 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

### Oxygen: Chronic Illness Management App | *React Native, TypeScript, Expo, Tailwind CSS*

[Link](#)

- Developed a cross-platform app to assist patients and caregivers in managing chronic illnesses by tracking symptoms, appointments, and hospital visits while enhancing communication.
- Integrated an AI Medical Assistant to provide real-time insights into medications and diagnoses, simplifying medical information for users.

### 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.