

# SADMAN SAMI

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🌐 [linkedin](#)

🌐 [Portfolio Website](#)

🐙 [github](#)

## Education

### University of Alberta

*Bachelor of Science with Honors in Computing Science*

- Grade - **3.7/4.0** | Dean's Honour Roll all semester.

**Expected Graduation 2026**

*Edmonton, Alberta*

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Systems Programming
- Software Methodology
- Database Management
- Machine Learning
- Computer Architecture

## Experience

### Save the Children International

**June 2024 – August 2024**

*Software Engineer Intern*

*Dhaka, Bangladesh*

- **Collaborated with a team of 5 developers** to implement **dynamic web applications**, utilizing **EJS templates** and **MongoDB**, achieving **15%** faster project completion than expected.
- Designed and enhanced **RESTful APIs** using **Node.js** and **Express.js**, enabling secure creation, retrieval, and management of over **1,000** monthly requests and **150+** user accounts, with a focus on scalability and reliability.
- **Tested and debugged APIs** using **Postman**, identifying and resolving **90%** of functional bugs before deployment, ensuring reliable performance.
- Integrated secure user **authentication** using **JSON Web Tokens (JWT)** and **OAuth 2.0**, ensuring robust access control and reducing authentication-related errors by **20%**.

## Projects

### Event Management App | *Java, Android Studio, Firebase*

**September 2024 - December 2024(Approx.)**

- Developing an event management app in **Android Studio**, allowing users to sign up for events via a lottery-based waiting list system, ensuring fairness and accessibility through **Firebase** integration.
- Configured advanced features such as **QR code** scanning, multi-user interaction, **image uploads**, and optional geolocation, enhancing functionality and delivering a seamless user experience.
- Utilized **Firebase** for backend integration, enabling real-time database updates and **authentication**, supporting thousands of user interactions with reliable data storage and processing.

### Emotion Analysis Web App | *Python, ReactJS, NodeJS, Tensorflow*

**September 2024**

- Programmed a **full-stack** Emotion Analysis App using **deep learning model**, **ReactJS**, and **NodeJS** to classify text into six emotions (sadness, joy, love, anger, fear, and surprise) with real-time predictions via a web interface.
- Achieved over **93%** accuracy on a dataset of **500,000+** labeled text samples, utilizing **TensorFlow** and an **LSTM**-based architecture for sequential pattern recognition.
- **Optimized** data preprocessing pipeline, removing noise, punctuation, and stopwords using **nlk** library, and configured one-hot encoding to enhance model performance on multi-class emotion classification.

### NHL Match Predictor | *ReactJS, Flask, Selenium, Python*

**July 2024**

- Architected an NHL Match Predictor using a **Random Forest Classifier** trained on two seasons of hockey data, achieving **71.23%** accuracy and evaluated with metrics like precision (**64.47%**), recall (**69.03%**), and AUC-ROC (**73.89%**).
- Structured a data collection pipeline by scraping thousands of historical and upcoming match records from the NHL official website using **selenium**, handling missing data, feature scaling, and encoding to ensure a robust dataset for analysis.
- Coded a responsive web application with **ReactJS** frontend and a Python based **Flask** backend, integrating **real-time** data flow to display predictions with a visually engaging and user-friendly interface.

## Technical Skills

**Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, SQL

**Developer Tools:** Firebase, Postman, Android Studio, Jupyter Notebook

**Technologies/Frameworks:** ReactJS, NodeJS, GitHub, PostgreSQL, MySQL, Flask

## Extracurricular

### Development Initiative Support for Rural Poor

**May 2021 – July 2021**

*Volunteer*

*Dhaka, Bangladesh*

- Participated in vaccine campaign activities in rural areas and Provided information to community members regarding vaccine efficacy, side effects, and the importance of immunization.
- Engaged with COVID 19 vaccination program to facilitate the online registration for the people in vaccination program.
- Supported various program activities, assisting with administrative tasks.