

# SHREY MANDOL

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## EDUCATION

**University of Alberta**, Edmonton, AB, CANADA

August 2019 – May 2024 (on-going)

- Bachelor of Science, Computing Science, with Specialization in Software Practice

## Work Experience

**Data Engineer Intern, Data Applications – WestJet**, Calgary, AB, CANADA

May 2022 – September 2023

- Responsible for designing and deploying data pipelines, data warehouse management, data integration and transformation, performance monitoring and optimization, and exploratory data analysis.

- Worked on several projects, most of which were used in production by WestJet by the end of my term.

- **Utilized:** Azure suite of CI/CD tools (DevOps, Databricks, AzureML, Datafactory), Snowflake, MS SQL, WhereScape, DBeaver, Python, SQL Languages

**Teaching Assistant, OM471: Decision Support Systems – University of Alberta**

September 2023 – April 2024

- Responsible for grading assignments and working with students to help clear doubts and issues.

## TECHNICAL SKILLS

- **Programming languages:** Python, Java, RISC-V Assembly, C, C++, C#, PowerShell

- **Mathematics:** Calculus, Linear Algebra, Statistics

- **Other:** MySQL, REST APIs, Firebase, Git, Android Studio, Tesseract-OCR, Operations Management, Unity 3D

## PROJECTS

**UniONE Dashboard – CMPUT401: Software Engineering – Group Project**

- Dashboard webapp used to manage users, businesses, events, and ads that are a part of a startup app designed to help students connect with each other

- Mostly responsible as a product manager, backend developer, and tester.

- **Utilized:** React, Django Rest Framework, ETL Concepts, PostgreSQL

**Habit Tracking App – CMPUT301: Intro to Software Engineering – Group Project**

- Android application built in a team, comprising of 6 students, as directed by a client

- Designed to track a user's habits, displays what habits are recurring as well as letting user add new habits

- **Utilized:** Java, Git, GitHub, XML, Android Studio, Firebase Firestore

**Predictions Discord Bot – Personal Project – Ongoing, live service**

- *Discord* bot designed in Python to run a prediction tournaments using polls over the course of a year with live leaderboard which updates as a new poll's result is record, and a winner is determined.

- Currently used in 2 different systems, with possibility to expand as required.

- **Utilized:** Python, VBA, SQL, Git, ETL Concepts, Cybera Cloud Service

**Operators Picked Program – Personal Project - Ongoing**

- Program designed in python that takes a YouTube link to a Rainbow Six match and extracting data from the video itself using OCR and image manipulation.

- Supported by Jesse Chick, analyst for the Rainbow Six North American League.

- **Utilized:** Python, Tesseract-OCR, SQLite

## POSITIONS OF RESPONSIBILITIES

**Esports Club at University of Alberta**

September 2021 – January 2022

- **Vice President Social** – Responsible for timely communication and ensuring the club runs smoothly

- **Rainbow Six Esports Team – Team captain;** creating strategies; organizing practices and matches.

**DIGEX Club at Delhi Public School, RK Puram**

May 2018 – December 2018

- **Director** – Led a club of 50+ members; Planned and executed annual DIGEX Inter-school competition.

## EXTRACURRICULARS + INTERESTS

- **International Exchange Programs:** Indo-German exchange and Singapore International Science Camp;

- Playing the **guitar** for 10+ years; Completed 6(of 8) grades of Trinity College London Guitar exams

- **Music Production and DJing:** Worked with several YouTubers to produce songs for them; Running a small personal YouTube channel with 1000+ subscribers & 200,000 + views; 300,000 streams on Spotify. Also part of a group to organize and host shows within Edmonton.