

Saksham Kohli

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Skills

Frontend - HTML, Bootstrap, Jinja Templating, and JavaScript.

Database - SQLAlchemy ORM (Object Relational Mapper).

API - REST API - GET/POST/UPDATE protocols.

Backend - Python (Flask framework)

Data - JSON, MS Office

Version Control - GIT (Using CLI)

Education

York University

Expected 2025

Honours Bachelor of Science, Computer Science Specialized in Computer Security

University of Ottawa

2021 - 2023

Biomedical Mechanical Engineering and Computation Technologies

Projects

Note-It - Python, HTML, CSS, Flask, SQL Alchemy, Git

- Developed a responsive web app using **SQL database** to store user data and created efficient queries using Object Relational patterns which improved runtime by **20ms**.
- Utilized **CRUD** operations to securely display and modify data, ensuring real-time updates and information accuracy for **50+ entries**.
- Deployed project with the help of PythonAnywhere to allow userbase to access through the cloud.

WorldFlags - REST API, Python, Tkinter, Pillow, Git

- Created a guessing game that implements the RESTful API (Countries) to **fetch data** for users to guess flags with high scores, limited lives, and point system.
- Extracted and relayed **JSON** data from **250+ countries** to engage the user consistently.
- Built a seamless visually appealing **GUI** harnessing Tkinter and CustomTkinter.

Tic-Tac-Toe - Python, PyGame, Numpy, Git

- Created a game with the classic Tic-Tac-Toe interface utilizing PyGame, allowing two players to start/restart games to compete.
- Strategically plotted each move throughout the game in a mutable array using **Numpy** and PyGame to track the progress of the game at each step.

K-Bot - Python, Discord, Requests, Git

- Engineered a **responsive** chat-bot using Python's *Discord* library with diverse and engaging text functionality such as random dice rolls, coin flips, and pre-programmed chat responses.
- Deployed and tested with **30+ individual users**.

Experience

Jadaco Recreation - Lifeguard

2019 - 2024

- Daily customer interactions to provide information on pool schedules, class timings, and resolving any other concerns.
- Supervise facility and enclosure to maintain patron safety.