Saksham Kohli

sakshamkohli6@gmail.com | 647-835-6369 | github.com/Saksham-3 | saksham-3/website | /in/saksham

Skills

Frontend - *HTML. Bootstrap, Jinja Templating, and JavaScript.*	**Backend -** *Python (Fask), Core Java*
Database - *SQLAlchemy ORM (Object Relational Mapper).*	**Data –** *JSON*
API - *REST API - GET/POST/UPDATE protocols.*	**Tools –** *GIT (CLI), MS Office, Agile*

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.