

Saksham Kohli

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Skills

Languages— Python, Core Java, HTML, Bootstrap, Jinja, JavaScript, TypeScript, React.js

Technologies/ Tools — SQLAlchemy (ORM), Flask, RESTful API, GIT (CLI), VS Code, MS Office, Agile, Waterfall

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.

RecipeHero — TypeScript, JS, Node.js, React.js, PostgreSQL, Spoonful API, HTML, CSS, Git

- Engineered a **responsive** recipe book application with dynamic recipe fetching using **JSON API data**. Implemented a “View More” button to display results **15% quicker** on the next page.
- Provided users with a way to **save and delete** favourite recipes using **ElephantSQL**

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.

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.