# Sejal Sharma

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## Skills

**Languages**  Java, C, C++, MySQL, JavaScript, React, HTML, CSS, JQuery, PHP, Node
**Tools**  Git, Visual Studio, Postman, Azure, Bootstrap, MUI

## Education

**University of Waterloo**  *Waterloo, ON*
Bachelor of Computer Science  Aug. 2024

**Wilfrid Laurier University**  *Waterloo, ON*
Bachelor of Business Administration  Aug. 2024

## Experience

**Systems Engineer**  *Mississauga, ON*
Pratt & Whitney Canada  Sept. 2023 – Dec. 2023

- Designed and implemented an **Inbox feature** that enhances **task managemen**t and productivity for engineers through personalized task lists with pinning, sorting, and filtering functionalities.
- Developed a **web-based LaTeX equation editor** for seamless equation writing and **real-time previews**.
- Significantly improved existing project tracking tool by integrating **Gantt charts** and bug fixes, contributing to the forthcoming updates of the system.

**Full Stack Developer**  *Toronto, ON*
U-Rite  Sept. 2022 – Jun. 2023

- Created a **Content Management System** and dynamic frontend for **software documentation**.
- **Streamlined** the **user registration onboarding** flow so that team members can preauthorize and preregister email accounts.
- **Redesigned APIs** to support new communications and modified database queries to facilitate faster run times.

## Projects

**Straights | Final Project** 🔗

- Recreated the straights card game in **C++** that can be played by four players, human or computer.
- Leveraged the **MVC/Observer** design pattern to achieve maximum cohesion and minimized coupling.
- Managed human and computer players through **inheritance** and a **polymorphic** parent class.
- Handled memory by using references and **smart pointers** and can be seeded for reproducibility within the game.

**LeftoverGang | Recipe Finder** 🔗

- A web application integrated with the **Spoonacular AP**I designed to suggest recipes based on the available ingredients in a user's fridge and pantry and desired cooking time.
- Ranks recipes by the number of missing ingredients, minimizing food waste and enhancing user convenience in meal planning.
- **Responsive design** and user-friendly interface coded with HTML, **JavaScript**, JQuery, Node.js, CSS, and Bootstrap.

**FlickPick | Movie Database** 🔗

- A movie recommendation platform with integrated **user authentication** using React-Auth-Kit and **JWT tokens**, allowing users to access personalized profiles and manage movie preferences.
- Utilizes **SQL queries** and the **SERN stack** to provide movie searching, sorting, and filtering, as well as a dynamic watchlist functionality.
- Designed a **recommendation algorithm** based on user preferences, genres, directors and actors, ensuring real-time and personalized movie suggestions.