Gurshan Singh Aulakh

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EDUCATION

Simon Fraser University   Burnaby, BC
Bachelor of Science in Computer Science   *January 2024 – December 2027*

EXPERIENCE

Supervisor   May 2021 – April 2023
Canco Gas Station   *Mission, BC*
- Managed a team of 3, leveraging strong leadership to drive daily performance and boost sales by over $1,100 weekly through enhanced customer service and promotions.
- Fostered efficient operations through effective communication, clearly assigning tasks to optimize team productivity.
- Maintained a positive work environment by actively solving problems and addressing the concerns of both team and customers.

PROJECTS

Maze Game │ **Class Project** | *Java*   October 2024
- Developed Designed and implemented a maze game using the Model-View-Controller (MVC) architecture, separating game logic, user interface, and player interactions for efficient and maintainable code structure.
- Developed comprehensive CRC cards and UML diagrams to plan class responsibilities and relationships, ensuring clear object-oriented design before writing code, resulting in a well-organized and scalable system
- Engineered a winning/losing condition system, where mouse collects cheese while avoiding cats, dynamically updating the game state and offering immediate feedback on win/loss outcomes with a complete maze reveal at the end.

Water Purification Inventory Management | **Class Project** │ *Java*   September 2024
- Developed an intuitive, dynamic text-based user interface that allows users to effortlessly track units, manage tests, and record shipping details, significantly boosting operational efficiency and user satisfaction.
- Developed Engineered advanced reporting capabilities that deliver critical insights into inventory status, spotlighting defective units and those ready for shipment, while integrating sorting mechanisms that transform data-driven decision-making.
- Seamlessly integrated robust JSON file handling to streamline data loading and manipulation, ensuring timely updates and a smooth user experience within the inventory management system.

Life Expense Tracker │ **Personal Project** │ *JavaScript, React, Redux*   August 2024
https://shanaulakh29.github.io/Expense_Tracker/
- Built a fully responsive web application with dynamic transaction management, including add, edit, and delete functionalities, ensuring efficient and seamless financial tracking.
- Designed an intuitive user interface with Tailwind CSS, incorporating dark mode toggle for enhanced user experience and accessibility across different environments.
- Implemented real-time balance updates, optimizing user interaction and providing accurate financial insights at any given moment, enhancing application efficiency.

Movie App │ **Personal Project** │ *React, Redux, CSS, JavaScript*   May 2024
- Created an interactive front-end movie application utilizing React and Redux, enabling users to seamlessly search for and filter movies and shows based on user input, resulting in a highly engaging user experience.
- Integrated a RESTful API to fetch real-time movie data, enhancing application performance and providing users with up-to-date information on movies, including detailed descriptions and ratings upon selection.
- Utilized React Router to facilitate smooth navigation within the application, allowing users to easily transition between different movie details and search results, thus improving overall usability and accessibility.

TECHNICAL SKILLS

Languages: Java, C/C++, SQL, JavaScript, HTML/CSS
Frameworks & Libraries: React, Redux, Bootstrap, Tailwind CSS, Node.js, Express.js
Developer Tools: Rest API, Git, Figma, VS Code, IntelliJ, Agile, Scrum, Kanban, Jira
Operating System: macOS, Windows