# RAJBIR BAINS

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## Education

**Simon Fraser University**                                              Sep. 2019 – April 2025
*Bachelor of Science, Major in Computer Science*                                     *Burnaby, BC*

## Experience

**Freelance**                                                September 2025 – October 2025
*Application Developer*
- Built a **Python** desktop application with a **Tkinter** GUI to automate API data retrieval, transformation, and integration into Excel reports
- Developed modular pipelines using **requests**, **json**, and **pandas**, and automated Excel updates with **openpyxl**
- Packaged the app into an .exe with **PyInstaller**, enabling deployment to ensure user doesn't need to install Python to run
- Applied software engineering best practices (error handling, modular design, extensibility), reducing manual reporting time from >15 minutes to <1 minute

**Fraser Health**                                                  May 2024 – August 2024
*Backend Developer / Data Management Co-op*                                          *Surrey, BC*
- Developed a front-end-to-database connection in **Angular**, **.NET**, and **SQL Server** for managing user permissions
- Planned and implemented a design that handles error recovery for jobs running through SQLServer Agents
- Ensured dimension tables between databases were consistent and ready for data modeling

**Fraser Health**                                                  May 2023 – August 2023
*Backend Developer / Data Management Co-op*                                          *Surrey, BC*
- Constructed **SQL** queries in order to group employee and job data across databases
- Debugged and implemented stored procedures to produce changes in temporal table within a given time frame
- Assisted in correcting corrupted table entries from system change

**Fraser Health**                                                   Sept 2021 – Dec 2021
*Backend Developer / Data Management Co-op*                                          *Surrey, BC*
- Developed a script using **PowerShell** to check server health and performance on multiple servers
- Designed and implemented an SQL Server Integration Service (**SSIS**) package that loads dimension and fact tables based on performance monitor data
- Utilized tables generated from SSIS packages to make an **OLAP cube** in order to make meaningful calculations and analyze data
- Generated automated **HTML** email reports on SQL job failures, improving operational visibility

## Projects

**Movie Review Site** | *React, Java, Spring Boot, MongoDB, CSS*               Nov 2025 – Dec 2025
- Developed REST APIs with Spring Boot, implementing GET and POST endpoints for movie and review management
- Created responsive React application with React Router for navigation, utilizing React Hooks for state management
- Used MongoDB to store movie information and reviews, supporting efficient data retrieval and updates
- Followed the MVC design pattern to organize backend code and improve readability and maintainability

**Camera Security System** | *C, C++, CMake, Python, Discord API*             Feb 2025 – April 2025
- Used motion sensor, and webcam to BeagleY-AI hardware in order to check authorization of people within video feed
- Utilized OpenCV to provide real-time facial recognition and authorization inference
- Set up UDP server to transfer information between hardware target and host backend
- Displayed unauthorized user photo and timestamp in designated Discord channel using Discord API in order to log invalid entry for admin user

**Bingo With Friends** | *Java, Android Studio, Google Firebase*               Mar 2024 – Apr 2024
- Implemented multiplayer function by using Google firebase in order to allow users to play with friends in real time
- Made sure development deadlines were met by doing two week sprint cycles and following the Scrum methodology
- Reduced amount of code by using a less redundant method of implementing bingo card

## Technical Skills

**Languages**: C++, C, C#, Java, SQL, Python, HTML, CSS, React, JavaScript
**Developer Tools**: Visual Studio, IntelliJ, SSMS, Android Studio
**Technologies/Frameworks**: Git, Docker, Postman, Flask, SSIS, SSAS, Firebase, MongoDB