Sean Brown

Surrey, BC | sean_brown_3@sfu.ca | https://github.com/SeanBrown12345 | https://www.linkedin.com/in/sean-brown-5a9889270/

TECHNICAL SKILLS

- **Languages:**
  - Python, JavaScript
  - C++, C, Java
  - Haskell, Rust
  - HTML, CSS, SQL
- **Applications:**
  - Microsoft SQL Server
  - Android Studio
  - Microsoft Office
  - Github
- **Operating Systems:**
  - Windows
  - Ubuntu Linux
  - Mac OS

TRANSFERABLE SKILLS

- **Communication and interpersonal** skills acquired from working in the customer service/sales industry for 4+ years.
- **Leadership and management** skills learned from taking many business and organizational behavior courses, and from working/leading numerous school and work projects
- **Agility and Time Management** skills gained from working a job within a fast paced environment since the age of 16, while juggling being a full time student and part time worker

TECHNICAL WORK EXPERIENCE

Co-op Data Integration Developer (BI) - *Cayenta*   *May 2023- December 2023*

- Developed SQL Scripts for integrating multiple systems, including BI and ERP platforms.
- Utilized REST API's to request data, then mapped that data to make it suitable for our system.
- Developed a file upload functionality for a new product line, designed the architecture which consisted of tm1 scripts, Java, Javascript, and Excel macros.
- Created "portals" which presented customer data in a meaningful manner to users.

RESEARCH EXPERIENCE

AI Research Assistant - *Supervisor Parsa Rajabi*   *May 2024-October 2024*

- Generated research topics and refined research questions with my supervisor.
- Conducted initial exploratory research, reading over 40 different papers.
- Authored research paper "Evaluating ChatGPT's Readiness and Accuracy in Creating Contextualized Computational Thinking" pertaining to the use of AI in modern Computer Science classrooms, under supervision and guidance of Parsa Rajabi.
- Submitted poster to SIGCSE 2025.

TECHNICAL PROJECTS

Human Face Classification Neural Network - *Machine Learning*   *January 2024*

- Built machine learning model to recognize whether a given image was a human face or AI Generated
- Designed architecture for L-layer Binary Classification Neural Network
- Trained and optimized the model using techniques such as Regularization and Mini Batching
- Achieved >99% accuracy on test data set after tuning hyperparameters

Graph Battle Royale - *Storm Hacks Hackathon*   *October 2024*

- Participated in a 24 hour hackathon as a team leader
- Created and designed a multiplayer game with Javascript and Python
- Developed back end server and custom API with Python, utilized REST for communication
- Designed and programmed UI and front end Logic with JavaScript

Music Database   - *Database Systems*   *January 2024*

- Created an entity relationship diagram, identified constraints, and decomposed into BCNF form
- Developed the tables in Microsoft SQL management, and modeled constraints using the GUI, UDF check constraints, and triggers to ensure data integrity
- Wrote numerous queries to test specifications and requirements for the database.
- Implemented various stored procedures

Messaging Application – *Operating Systems, SFU*   *December 2022*

- Developed using C, tasked with creating a program which interacted with another instance of itself through sockets
- Created the program consisting of 4 threads and two lists. The threads interacted with each other through the use of shared lists.
- Utilized multiple semaphores to build threads and provided concurrency between their shared lists
- Modeled and designed how the program was to be built, and how to have both instances (with blocking functions) close once a specific message was sent

Program to expedite tip distribution process at Starbucks - *Personal*   *October 2022*

- Created and designed a Java program to parse work documents, and gather information about names, IDs, and hours
- Programmed an algorithm to quickly process everyone's tips, instead of having to do it by hand
- Designed a simple GUI for users to interact with
- Utilized classes to hold information about employees

WORK AND VOLUNTEER EXPERIENCE

Starbucks – *Barista*   *March 2018 - February 2023*

- Gained interpersonal skills such as starting conversations, learning about our regular customers, and selling our products
- Received Employee of the Quarter award in 2021

Surrey Tree Lighting Festival – *Volunteer*   *November 2019*

- Helped set up decorations, and run the tree lighting festival for the city of Surrey

Kwantlen Park Secondary – *Volunteer*   *September 2018-2019*

- Tutored in my senior year, helped our music programs

EDUCATION

Simon Fraser University, Burnaby BC   *January 2021 – December 2024*

- Bachelor Of Science – Major in Computer Science

INTERESTS

- Music, I play many instruments, have played in bands, and have been singing and songwriting since I was a young child.
- Skiing, Golf, Soccer