

# Colton Blackwell

☎ (778) 861-7517

✉ ccb11@sfu.ca

📍 North Vancouver, B.C.

🌐 LinkedIn (linkedin.com/in/colton-blackwell/)

🐙 GitHub (github.com/coltonBlackwell)

Portfolio (coltonblackwell.github.io/index.html)

## TECHNICAL SKILLS

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- **Languages:** Python | Java | C | C++ | SQL | JavaScript | Rust | HTML/CSS | Assembly
- **Technologies:** MySQL | Git | Github | Unix command line | Excel | Visual Studio Code
- **Operating Systems:** GNU/Linux (Ubuntu, Majaro) | Windows | MacOS | Android | IOS

## TECHNICAL PROJECTS

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### Koi Kapers

September - December 2023

Introduction to Software Engineering: CMPT 276 (SFU)

- Assisted with UML class diagram to plan the control flow of the game.
- Built project using Maven for easy testing and dependency management.
- Measured branch and instruction coverage for testing using JaCoCo.
- Utilized Java as primary language while integrating JPanel and Graphics2D for UI.
- Delivered the concluding project presentation in front of an audience of over 100 peers.
- [Github Repository](#)

### ‘SQL Programming and Normalization’

November 2023

Database Systems I: CMPT 354 (SFU)

- Set up a database in mySQL for the creation of tables and inserting records.
- Queried data for specific instances using SELECT, FROM, WHERE, etc.
- Located the functional dependencies in a relation and checked for unwanted redundancy to verify whether a database carried unnecessary information.
- Decomposed given relation into BCNF to promote a stronger database.
- [Github Repository](#)

### scRNA-seq Cluster Analysis

March 2024

Special Topics in Data Mining: CMPT 459 (SFU)

- Enhanced Python proficiency covering syntax and NumPy for numerical operations.
- Acquired hands-on experience in implementing K-means clustering, focusing on centroid initialization, updates, and Euclidean distances.
- Learned PCA for dimensionality reduction, and applied clustering techniques.
- Developed preprocessing skills for scRNA-seq datasets.
- Utilized Matplotlib for visualization and interpreted silhouette coefficients.
- [Github Repository](#)

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## HACKATHON

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### New Leaf

October, 2023

Fall Hacks 2023 (SFU)

- Utilized JavaScript for backend infrastructure and reliable user input.
- Integrated CSS and HTML for an engaging and responsive user interface.
- Collaborated with team members to center planning around the given hackathon theme.
- Employed version control (git) for effective code management throughout hackathon.
- Consistently pushed code to GitHub for project storage and collaboration with team.
- [Web Application](#)

## OTHER WORK EXPERIENCE

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### Produce Clerk

May - September 2021, 2022

Thrifty Foods, North Vancouver, B.C.

- Collaborated with team members to achieve departmental sales goals.
- Assisted customers with inquiries and complaints.
- Paid close attention to product details, including appearance and quality.
- Maintained a well-organized and clean work environment.

## COMMUNITY INVOLVEMENT

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### General Board Member

September - December 2022

UNICEF SFU

- Assisted in organizing and executing fundraising events.
- Participated in board meetings and provided feedback on agenda items.
- Established connections with fellow board members.

## CERTIFICATES

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### SQL Essential Training

March 2024

Linkedin Learning

### C Programming - Pointers, Constants and Strings

February 2024

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## EDUCATION

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### BSc. in Computer Science

September 2021 – April 2025

Simon Fraser University (SFU), Burnaby, B.C.