

Amar Koonar

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EDUCATION

Moscrop Secondary School

High School Diploma

Burnaby, BC

Sept. 2018 – June 2023

Simon Fraser University (GPA: 3.74)

Bachelor of Science in Computing Science

Burnaby, BC

Starting Fall 2024

EXPERIENCE

SFU math peer mentor

Calc 1 peer mentor

Surrey, BC

Jan. 2024 – present

- Clarified Calc 1 concepts and guided students through problem-solving.
- Foster group discussions and connect peers to helpful resources.

SFU CS tutor

CS tutor at SFU

Burnaby, BC

July 2022 – Aug. 2022

- Clarified CS concepts and guided students through programming challenges.
- Broke down coding concepts, offered debugging assistance, and reinforced best practices.

PROJECTS

Pokemon Library

GitHub Repository

- Developed a website using React Native to display Pokémon information fetched from the PokéAPI.
- Designed an interactive user interface to showcase Pokémon cards, types, abilities, and stats.
- Designed a responsive interface to adapt seamlessly for mobile viewing without sacrificing user experience.

SFU Weather Twitter Bot

GitHub Repository

- Developed a Python bot to fetch and tweet real-time weather updates for Burnaby Mountain.
- Utilized APIs for weather data retrieval and Twitter integration.
- Automated daily updates and ensured efficient error handling and logging.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript

Frameworks & Libraries: React Native, Pandas, NumPy, Matlab

Mathematics: Calculus I, Calculus II, Linear Algebra, Discrete Mathematics (MACM 101)

Tools & Technologies: Git, Visual Studio Code, Linux, Nvim

RELEVANT COURSEWORK

CMPT 225 - Data Structures & Programming

- Explored fundamental data structures (linked lists, stacks, queues, trees, AVLs, Hashmaps) and key algorithms (searching, sorting, hashing).
- Gained hands-on experience in object-oriented programming, memory management, and debugging techniques.

CMPT 201 - Systems Programming

- Examined low-level programming principles, including process management, file systems, and concurrency.
- Developed skills in inter-process communication, threading, and memory allocation to ensure efficient system design.