

Amraj Koonar

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SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL

Frameworks: React, scikit-learn, Node.js

Developer Tools: WordPress, Git, VS Code, Jupyter Notebook, Android Studio, MATLAB

Transferable Skills: Problem-solving, teamwork, communication, time management, adaptability

TECHNICAL PROJECTS

Sports Trivia Website | *React, CSS, HTML, JavaScript, balldontlie API* Dec. 2024 – Present

- Built an interactive sports trivia website using React to engage users in themed trivia questions across NFL, NBA, MLB, and EPL categories.
- Designed visually engaging UI elements, including animated buttons and titles, using custom CSS animations and keyframes.

SFU Weather Update Bot | *Python, BeautifulSoup API, Twitter API* Jun. – Dec. 2024

- Developed a Python Twitter bot to provide real-time weather updates, road conditions, and parking lot statuses through images and data.
- Utilized web-scraping to fetch text & images from SFU Security page, ensuring accurate, precise and timely updates.
- Integrated Twitter and BeautifulSoup API to automatically post updates as conditions change, enhancing campus safety.

Movie Recommendation System | *Python, Pandas, Tkinter, Scikit-learn* Sept. – Nov. 2024

- Developed a Python application integrating content-based and collaborative filtering to recommend movies based on user input.
- Utilized TF-IDF and cosine similarity to implement text-based movie search functionality.
- Designed an interactive GUI using Tkinter for user-friendly input, search, and display of recommendations.

Blackfoot Language Learning Game | *Python, Pygame* Sept. – Dec. 2022

- Developed a Python game to facilitate learning the Blackfoot language using audio and visual aids.
- Utilized matrix manipulation techniques to edit 2D images, creating interactive and engaging learning materials.

EXPERIENCE

Computer Science Peer Tutor Dec. 2024 – Present

Simon Fraser University

Burnaby, BC

- Strengthened communication and interpersonal skills by effectively assisting students in understanding complex topics such as recursion and dynamic programming.
- Guided students in debugging code and understanding foundational programming concepts in languages such as Python, Java, and C++.

Science & Math Peer Tutor Sept. 2023 – Present

Simon Fraser University

Burnaby, BC

- Enhanced problem-solving skills by breaking down advanced calculus concepts into manageable steps to aid student comprehension.
- Demonstrated critical thinking and adaptability to identify student challenges and develop individualized learning strategies to improve academic outcomes.
- Developed individualized learning plans for students, addressing specific areas of difficulty to improve their overall performance.

Computer Programming Assistant Instructor Oct. 2021 – Jan. 2022

Under The Gui

Vancouver, BC

- Developed and implemented engaging methods to teach coding to children, fostering an interest in CS.
- Fostered leadership and teamwork by creating an engaging and inclusive environment to teach coding fundamentals to children.

EDUCATION

Bachelor of Science in Computer Science

Simon Fraser University

Sept. 2022 – Present

Burnaby, BC