Xavier Bester

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EDUCATION

University of Calgary   Calgary, AB
Bachelor of Science in Computer Science GPA: 3.88   *Expected Graduation, April 2028*

Medicine Hat College   Medicine Hat, AB
General Studies GPA: 3.82   *Sept. 2023 – April 2024*

PROJECTS

Fitness Tracker | *Java, JavaFX, JUnit, Git*   Jan. 2025 – Present
- Designed and developed a desktop fitness tracker that allows users to create and manage workout routines, exercises, sets, reps, and weight.
- Utilized JavaFX to build an interactive, user-friendly GUI for easy workout tracking.
- Applied object-oriented principles to organize routines, exercises, and progress into reusable and maintainable classes.
- Implemented unit testing with JUnit to ensure reliable functionality and maintain code quality.

Brain Tumor Detection AI | *Python, PyTorch, Computer Vision, Machine Learning*   Oct. 2024 – Oct. 2024
- Developed a deep learning model using PyTorch to classify brain MRI scans and detect tumors with 94 percent accuracy.
- Designed and trained a convolutional neural network (CNN) to distinguish between tumor and non-tumor images.
- Evaluated performance with accuracy metrics and optimized hyperparameters to maximize model reliability
- Gained experience in computer vision, neural networks, and real-world medical datasets.

Custom Connect 4 Game | *Java, Algorithm Design, Game Logic*   Jan. 2025 – Feb. 2025
- Built a fully functional Connect 4 game in Java using only static methods, focusing on procedural programming techniques.
- Designed a dynamic game board with customizable width, height, and connection length, allowing flexible gameplay beyond the classic rules.
- Introduced an innovative L-shaped win condition that required players to create both a straight connection and at least one perpendicular piece for victory.
- Implemented efficient win-checking algorithms to handle variable board sizes and complex game states
- Reinforced skills in control flow, arrays, and scalable logic for grid-based games.

EXPERIENCE

Cook   Oct. 2023 – Aug. 2024
Asian Garden   *Medicine Hat, AB*
- Prepared and cooked high-volume dishes efficiently in a fast-paced kitchen environment.
- Adapted quickly to changing demands and ensured consistent food safety and customer satisfaction.
- Strengthened time management and multitasking abilities while handling multiple orders under pressure.

Server   Aug. 2023 – Aug. 2024
Boston Pizza   *Medicine Hat, AB*
- Delivered friendly and efficient service in a busy, high-volume restaurant environment.
- Managed multiple tables while ensuring accuracy and a positive guest experience.
- Developed strong interpersonal skills and the ability to stay organized under pressure.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL
Frameworks: JUnit
Developer Tools: Git, GitHub, GitLab, Google Collab, VS Code, PyCharm, IntelliJ, Jupiter
Libraries: NumPy, Matplotlib, PyTorch