Braeden Ruff

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GitHub: https://github.com/BraedenRuff

Education

2020-09 – 2024-04
University of New Brunswick, Fredericton, New Brunswick, Bachelor's in Computer Science
- Cumulative GPA: 4.0

Experience

Software Developer (Co-op)
Mach85
Fredericton, New Brunswick
December 2021 – September 2023
- Developed Digital Image Correlation (DIC) analysis software to accurately and efficiently translate real-world objects into 3D models.
- Played a key role in the development of multiple modules within the software codebase.
- Identified and resolved various bugs.
- Developed new features and improved existing ones.

Computer Science Teaching Assistant
University of New Brunswick
Fredericton, New Brunswick
September 2021 – December 2021
- Tutored first year students with foundational CS classes.
- Assisted with labs and marking.
- Provided feedback to instructor on what issues were most common.

Personal Projects

Multi-Dimensional Tic-Tac-Toe

- Built a complex adversarial game with many win conditions and manipulations of the board state
- Implemented an online multiplayer network system, enabling remote play.
- Uses rotation in 3D spaces.
- More information including a download and video demo here: https://github.com/BraedenRuff/Multi-Dimensional-Tic-Tac-Toe/blob/main/README.md

Space Invaders

- Upgradeable re-imagining of Space Invaders.
- Scaling difficulty, with bosses every 10 waves.
- Interactable weapon modifications and currency system.
- More information including a download and video demo here: https://github.com/BraedenRuff/SpaceInvaders/blob/main/README.md

Skills

Programming Skills

C#, C++, C, Java, Python, Octave, Matlab, Racket, SQL, HTML5, CSS, JavaScript, PHP, Git

Academic Awards

- Obtained scholarships exceeding $28,000 in total for academic excellence.
- Achieved the Dean’s list for every academic year enrolled in Computer Science.

References

Available upon request