

BRODY A. SILVA

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Portfolio: brodysilva.com

EDUCATION

Champlain College | *Burlington, VT*

Expected Graduation: May 2027

Enrolled in: *Bachelor of Science in Game Programming, Minors in Computer Science and Mathematics*

- Awards and Recognition: Trustee's List (4.0 GPA for 2+ semesters) Spring 2024
- Relevant Courses:
Intro and Advanced Programming (C++) | Data Structures and Algorithms | Calculus I & II | Discrete Mathematics | Matrices, Vectors, and 3D Math | Intro to Modern Graphics Programming | Database Management Systems | Game Architecture | Game Studio I

TECHNICAL SKILLS

- **Languages:** C++, C#, Python, Java, OpenGL
- **Tools and Software:** Unity, Unreal, Git, GitHub, SVN, Visual Studio Code, CLion

PROJECTS (available upon request)

3D Maze Rendering | *C++, OpenGL*

- Taking mazes laid out as matrices, and converting them into 3D, traversable mazes through OpenGL rendering.
- Rendering optimizations include eliminating unnecessary, shared vertices in a drawn maze through mesh creation.

Nebular Neko Blast | *Unity, C#, Jira, Confluence, Bitbucket*

- 2D retro bullet hell with unique movement created in 4 weeks on a multi-disciplinary team of 6, with full agile scrum practices in place through Jira, Confluence, and Bitbucket.
- As the sole programmer, created a unique scriptable object system for designers to make diverse bullet patterns and bullet pattern groupings without any programming.

Sublime | *Unity, C#*

- 15-level polished puzzle platformer with a unique movement system allowing the player to act as a slime that can stick to all surfaces regardless of orientation. Additional features include moving pipes, unique enemies, and data-saving.

Sakila Database Analyzations | *Python, MySQL*

- 20-page research paper querying the Sakila database, processing and analyzing the data, and producing key performance metrics based on visualized data
- Utilized Python libraries such as pandas and matplotlib to process and visualize data.

Personal Portfolio Website | *HTML, CSS, JavaScript*

- Available at brodysilva.com, this site demonstrates a unique and in-depth understanding of HTML, CSS, and JavaScript, including unique JS animations, and a representation of my portfolio.

EXPERIENCE

Hub Desk Staff, Champlain College | *Burlington, VT*

Sep. 2024 – Present

- Checking students into various fitness facilities on campus, and providing information on on-campus events.
- Miscellaneous tasks include laundry retrieval, van reservation, event registration, cleaning of facilities, and more.

Sales Associate, Pepperell Quality Market | *Pepperell, MA*

Aug. 2023 – Dec. 2023

- Attended to customers in-store, aiding as needed.
- Responsible for closing the store multiple nights a week, shutting down registers, and locking up.

Youth Council Member, LUK, Inc. | *Fitchburg, MA*

Feb. 2020 - Apr. 2022

- Attended weekly meetings discussing, planning, and executing various youth-led projects, community organizing, and leadership development oriented around substance abuse prevention and mental health awareness.
- Utilized graphic design software to create flyers and graphics advertising events and other gatherings
- Led and took part in research outside of meetings to further the education and awareness of substance abuse.

Sales Associate, Newbury Village Store | *Newbury, VT*

Summers of 2019, 2020, 2021, and 2022

- Attended to customers, received shipments, restocked stores, and completed basic cleaning tasks.
- Occasionally responsible for landscaping tasks such as garden and lawn care.
- Implemented new Clover inventory system and trained other employees on the software.

EXTRACURRICULARS

- President of Champlain College Volleyball Club: Responsible for running all volleyball-related events, setting up our intramural volleyball seasons, attending student-government meetings, and submitting semester budgets.
- Interests: Weight-lifting, running, rock climbing, retro video game collecting, chess, Rubik's cubes, jazz, and dogs.