

Berk Unver

Prospective Game Developer and Game Engine Programmer

Github

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I am a senior at Boston College. I am very independently-driven and am interested in systems programming. I want to become more involved in making custom game engines to design unique and interesting games.

Education

Boston College, BS in Computer Science and minor in Studio Art, expected graduation in May 2025.

Notable coursework includes Compilers, Computer Systems, Operating Systems, Networks, Deep Learning, and a Functional Programming independent research project.

Relevant Work Experience

Thekla Inc.

May - Aug. 2024

Game Engine Programming Intern

I worked on Thekla's custom game engine in their custom, native, manual memory management language, Jai.

- Added new widgets to the level editor
- Made the controller and keyboard rebinding menu.
- New gameplay entities and UI
- Fixed many editor and gameplay bugs

VideaHealth

May - Aug. 2023

Software Engineering Intern

I worked on the backend and frontend of their main product.

- Parallelized unit testing
- Improved dental X-ray sorting algorithm
- Front-end bug fixes
- Reviewed pull requests

Boston College TA

Jan. - Dec. 2023

Computer Systems Teaching Assistant

I enjoyed Computer Systems when I took it so I became a TA.

- Held office hours
- Explained intro systems topics from class to students
- Left detailed feedback when grading student assignments

Personal Projects

The Knight's Layer

Dec. 2023 - May 2024

<https://youtu.be/ZiG4rueYiJA>

This is a Deltarune fangame and parody.

- Written in C-style C++ with Raylib for rendering
- Replicates all of the features of the Deltarune battle system (magic and ACTS, items, bullet hell patterns, dialog, SPARE and MERCY endings, etc.)
- Custom boss with 6 attack patterns

Compiler Frontend

Feb. - May 2023

<https://github.com/BerkUnver/Creed>

I wrote the lexer, parser, and typechecker for the group project of my Compilers course.

- Written in C from scratch, no parser generators. The only dependency is libc.
- Implements the syntax of a C-like programming language.

Untitled Game

Dec. 2020 - June 2024

I spent three and a half years trying to make the game I most want to make. I stopped after realizing that this project was hampering my evolution as a game developer.

- Written in C# with Godot Game Engine
- Though this project is shelved, it isn't a failure. This is what made me interested in game development.
- I plan to return to a very different version of this concept when I have the abilities to take it on.

Art Projects

Dec. 2020 - Present

Assorted art projects both relating to and outside of my game projects.

- Independent Study in Figure Drawing
- Sprites and animation for *The Knight's Layer*
- Sprites and animation for my untitled game
- Pencil and paper traditional animation
- Portraits

Hitbox Editor

Jan. - Sep. 2023

<https://github.com/BerkUnver/CombatAnimator>

This allows me to edit metadata for attacks on top of animations for my untitled game.

- Written in C.
- Exports JSON metadata for playback by my custom animation player in the untitled game.

WASM Interpreter

Sep. - Dec. 2022

<https://github.com/BerkUnver/Zapper>

Functional programming project for independent study course credit.

- Written in Elm.
- Supports a subset of Web Assembly
- Lexer, parser, typechecker, and interpreter