Grayson Clark

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WEBSITES, PORTFOLIOS, PROFILES

- https://faultypine.github.io/#/
- https://github.com/FaultyPine
- https://www.linkedin.com/in/grayson-clark-ab67a2221/

SKILLS

- Programming Languages:
- C++
- Python
- Rust
- C
- Java
- C#HTML/CSS
- Tools:
- Unix/Windows terminals
- Debugging GDB/debuggers

- Software testing Unit tests
- Git
- Unity/Godot
- Other:
- Computer Networking
- Cooperation with teammates
- Tutoring students
- Library design
- Documentation
- Requirements analysis and design

EXPERIENCE

Camp Counselor, Deerfield Park District, May 2015-July 2020 Deerfield, IL

- Led and was responsible for a group of 13 kids
- Coordinated and led group activities for campers and counselors
- Helped campers build confidence and self-esteem through consistent guidance and mentoring
- Collaborated with staff to establish and maintain supportive and structured environment
- Maintained effective consistent communication with parents and families.

EDUCATION AND TRAINING

Bachelor of Science

Computer Science, Game Development, Indiana University, Bloomington IN Expected in May 2024 GPA: 3.6 / 3.9

Topics covered in my classes: Python, Java, HTML/CSS, Data Structures & Algorithms, Discrete Structures, Calculus

PERSONAL PROJECTS

- Lead developer/Creator of <u>Brawlback</u> an implementation of peer-to-peer Rollback Netcode and Integrated Matchmaking for Super Smash Bros Brawl. Written with **C++**, and **PPC ASM**.
- Formerly lead developer for <u>HewDraw Remix</u>, an open source modification of Super Smash Bros Ultimate, written in **Rust**. Was responsible for framework restructuring/maintenance, basic CI/CD infrastructure, an auto-updater/launcher, and gameplay modifications. Currently we have ~25 contributors and ~4000 active players. The project is composed of approximately 100,000 lines of Rust, as well as python scripts for automating various tasks and infrastructure,
- Created <u>UltimateModShop</u>, a homebrew application written in C++ for the Nintendo Switch that allows users to download, install, and manage Smash Ultimate mods directly on their switch, using the GameBanana web API.
- Created multiple modification plugins for SSBU (Smash Ultimate) in Rust, as well as a guide to
 creating those plugins. This taught me about how to teach other people complicated topics,
 and how to create and maintain shippable products while making sure users are satisfied.
- Developed a python script called that takes in binary files and parses differences between them while styling the output into a format I use for Brawlback
- Created various **Unity** projects that <u>recreate game mechanics</u> from games like The Legend of Zelda: Breath of the Wild, and No Man's Sky.
- Created a command line program in Java that manages a pretend store. It takes commands
 from a file and manages inventory, creates and validates staff schedules, and provides an
 interface to the user that can locate specific items in the pretend "store".