

Brandon Fox | brandof@umich.edu

EDUCATION

University of Michigan | Ann Arbor, MI

Graduation: May 2024

GPA: 3.7/4.0

Double Major: *Computer Science, Sociology*

Skills

Relevant Coursework: EECS 280 (Programming and Intro Data Structures), EECS 281 (Data Structures and Algorithms), EECS 203 (Discrete Mathematics)

Languages: C++, C#, Python

Tools: Visual Studio, Unity, Jira, Confluence, Bitbucket, Git, Plastic SCM, html, css

Projects

WolverineSoft Winter 2023 Studio: Project Drift

(C#, Unity, 30-person team)

- 30 students made up of programmers, designers, artists, and marketers working on a 10 week-long project
- One of 8 programmers on Project Drift, a top-down action-adventure case-study game
- 10 merged pull requests to date
- Handled Implementation of level features, such as traps, disappearing platforms, destructible items, and treasure chests

WolverineSoft Fall 2022 Studio: Subtension

(C#, Unity, 40-person team)

<https://wolverinesoft-studio.itch.io/subtension>

- 40 students made up of programmers, designers, artists, and marketers working on semester long project
- One of 9 programmers on Subtension, an FTL case-study game
- Created 25 pull requests according to studio standards which were all reviewed by programming lead and approved before merging into main code base
- Handled Implementation of enemy AI, player hazards, defensive systems, UI, and stabilization

High Tide

(C#, Unity, 5-person team)

<https://zstarlight.itch.io/high-tide>

- 2-D beach themed tower defense game submission for WSoft Beach Jam 2022 (weeklong)
- Met once a day to discuss game design and distribute tasks
- Handled Implementation of towers, unique resource collection system, and worked on game design and balancing
- Won second place, best game mechanics, best music, sound effects, and audio, and tied for best use of theme ("Makin' Waves")

Discord-server web scraper

(Python, HTML)

<https://bbox123.github.io/discord-server-web-scraper/>

- Developed a program that fetches and parses HTML data on Discord (a Voip and instant messaging platform) servers based on searched tags, which can then be sorted by desired population size
-

Academic Projects

Discussion Post Identifier

(C++, machine learning, maps)

- Developed a machine learning ADT that can identify the subject of a student's discussion board post
- Trained program utilizing the bag of words model and maps to store the frequency of certain words and their associated tags