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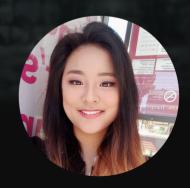
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EXTERMAL JECHNOFOCIES

Productivity:

- > Git/GitHub
- > Google Drive Office Suite
- > Trello

Document/Presentation Preparation:

- > LaTeX
- > LibreOffice Suite

Game Development:

- > Unity Game Engine
- > Unity Asset Store
- > MySQL
- > Eclipse/Visual Studio/Vim
- > JSON Simple

DATA STRUCTURES

- > Vectors (no project is complete w/o using some implementation of the list ADT)
- > Hash Set (for fast inventory item access for item update)
- > Directed Graph (for Animation State Machine and Scene Manager)
- > 2-d Tree (allows us to randomly generate monster positions on scene load)
- > Hash Map (linking marketplace listings to owner usernames)

PROFESSIONAL DEVELOPMENT

- > Artificial Intelligence- wow, did you just use a cuss ... I mean buzz word?
- > State Machines- wait, what do you mean you don't need memory?
- > C#Scripting- another language to put on your resume even though you haven't mastered it
- > 3-Dimensional Math/Linear Algebra- raise your hand if you hate math, wow that's everyone
- > Physics- no one understands how real physics works, and even fewer understand how game physics work
- > Game Design- why does it seem that STEM and creativity are in near complete complementary distribution?
- > Art/Animation- the hardest AND lowest paying part, that doesn't seem right

KEY COURSES

Fundamentals:

- > <u>MATH 225</u>: Linear Algebra and Differential Equations
- > <u>PHYS 151</u>: Fundamentals of Mechanics and Thermodynamics
- > <u>CSCI</u> <u>104</u>: Data Structures and Object-Oriented Programming

Game Development:

- > CTIN 488: Game Design Workshop
- > CTIN 484: Intermediate Game
 - Development
- > ITP 380: Video Game Programming

DESIGN YND DEVELOPMENT DECISIONS

The Good:

- > Formalizing the file structure for the backend early
- > Unity (cross-platform availability/packaging)
- > Meeting Every Week
- > Delegating tasks based on experience

The Bad:



- > Passing JSONs instead of using server sockets
- > No dedicated Game Designer/ Writer
- > Not enough pair programming
- > Using Messenger over Slack

The Ugly:

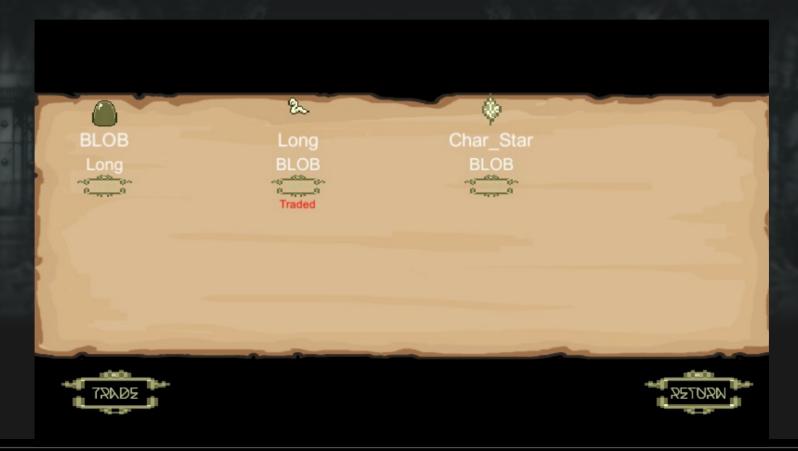


- > Using a Game Engine's nonnative language
- > Perforce is the gaming industry standard for version control for a reason (teamwork was severely impeded by merge conflicts)

MORZIJABENDING

- > Implementing Auto-Save
 - > One thread handles the general request for loading data, trading, and login/register
 - > A separate thread handles unique ISON files for different players to save their records.
- > Inherent in Games

METWORKING



NSEW FOCIM

