Colby Hall

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Experience

Define Human Studios
Gameplay / Systems Programmer

Miami, FL
Summer 2017 – Winter 2018

- Implemented core gameplay architecture such as Weapon Mechanics, Inventory System, and Movement System
- Optimized network usage of movement code while optimizing data usage to prevent rubber banding
- Worked with lead animator on designing animation system using IK and FK
- Designed gameplay UI elements using photoshop and UMG
- Wrapped API's such as Vivox, and Steamworks and then implemented them into game systems

Alderon Games
Gameplay Programmer

Melbourne, Australia
Summer 2016 – Summer 2017

- Implemented highly moddable core structure for gameplay elements with documentation
- Started core framework for networked inventory system with lightweight data structures
- Worked with lead animator and rigger to design advanced FK and IK true first-person rig
- Prototyped and implemented block style Inventory UI
- Setup build tools along with slight steam integration
- Implemented ballistics based on real world material density for penetrations and reflections

Skills

Experienced in network replication, gameplay design and structures

- **Programming:** C/C++ (OpenGL, Win32, SDL) ● C# ● Java (LWJGL) ● NodeJS (Electron, Express, Mongoose) ● Python
- **Software:** Unreal Engine 4 ● Unity ● Source SDK ● Photoshop ● Perforce ● Git
- **Design:** UI/UX ● Core Gameplay Architecture ● Rapid Prototyping

Projects

Islands of Nyne: Battle Royale
Fast Paced First-Person Shooter

Miami, FL
Summer 2017 - Present

- Winner of IndieDB's Indie Game of the Year 2017
- Shown at main stage of Microsoft E3 conference 2018
- Made in Unreal Engine using such things as Vivox, Steamworks, and Gamelift

Breaking Point
Massive Online Survival Mil-Sim

Melbourne, Australia
Summer 2016 – Summer 2017

- Arma 3 mod going standalone
- Massive online multiplayer NPC's and Factions

Education

New Century Technology High School
Computer Science Strand

Huntsville, AL
Fall 2013 – Summer 2017

- Top Regional Gold Cyber Patriot
- Strand completer