

# Colby Hall

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## Experience

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### Define Human Studios

Miami, FL

#### Gameplay / Systems Programmer

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

Melbourne, Australia

#### Gameplay Programmer

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

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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

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### Islands of Nyne: Battle Royale

Miami, FL

#### Fast Paced First-Person Shooter

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

Melbourne, Australia

#### Massive Online Survival Mil-Sim

Summer 2016 – Summer 2017

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

## Education

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### New Century Technology High School

Huntsville, AL

#### Computer Science Strand

Fall 2013 – Summer 2017

- Top Regional Gold Cyber Patriot
- Strand completer