

# Andrew Patton

**SOFTWARE ENGINEER - BSc, MSc (ongoing)** 



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[On Request]



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# **UNIVERSITY GRADES**

BSc (Hons) Computer Science with Games Development 75% (1:1) Final Grade

MSc Advanced	
Computer Science	
SEM 1	81%

SEM 2	81%
Research	Ongoing
Final Grade	Ongoing

#### **TECHNICAL PROFICENCIES**

C# Unity JavaScript Unreal ❖ Java C++

These languages and tools are a short selection based on personal experience and preference.

#### **HOBBIES & INTERESTS**

- Podcasts about technology and physics (StarTalk, Vergecast)
- Comics (Spider-man!)
- Game Jams
- ❖ NBA 76ers!

#### **UBISOFT**

**ONGOING** 

## **User Research Lab**

Evaluating not only the quality of a game, but reporting back what areas are lacking, and how they might be improved.

#### **ACCENTURE**

**JULY, 2015** 

#### Work Shadowing

Working in AGILE/scrum teams. Executing & documenting tests, following a predefined plan. Exploring different work aspects of a team and how they interact to co-develop a software product

#### **PROFILE**

Technology enthusiast currently studying MSc Advanced Computer Science at Northumbria University. I help to run the NU Game Dev society; we meet up weekly, share projects/advice and participate together in game jams. Through the society and research conducted at university, I've grown to love not only programming but teaching others, seeing the spark in their brain when it all finally clicks.

#### **NOTABLE PROJECTS**

More projects can be found under the "Portfolio" section of my website.

## The Broken Arms - Unity, C#, Mixamo

TBA is NUGameDev's most recent jam game, for 'repair' themed GG[20. The player takes over a bar: serving customers, managing stock BUT everything keeps breaking! My focus was the AI customers, the complaints system and post-jam I took care of adding poo splatter, because, well, why not?

Implementation of Object-Oriented Designs (92%) - C#, WinForms, EF The focus of this module was not the program itself, but the quality of code and the thought process behind building an architecture that could withstand shifts in paradigms. Whilst the end-product was not too exciting, I found the development cycle and the module's lectures very useful & interesting.

# Dengar! - JavaScript

A rather different project than usual, JS13K's rules restrict games to less than 13Kb in full. Dengar is an 'endless' runner in reverse, where you play as an alien trying to return to Area 51.

#### Software Architecture for Games (82%) - C++, DirectX

Using C++ to extend a DirectX wrapper into a functional 2D game engine. My engine was built on the concept of generic, flexible components, similar to the Unity framework. Gameplay programmers can add their own game objects, attaching both core and custom components to alter the behavior of and breathe context into the game object.

#### Computer Networks and Control Systems (92%) - C, Java

Inspired by Atari's 1979 Lunar Lander, this project combines an MBED board programmed in C with a 2D game window programmed in Java. The player must manage limited fuel resources whilst finding a flat area to land safely, controlling the craft using the board's joystick & potentiometers. Flashing LEDs and sound effects gave feedback to the player, simulating the ship's on-board systems (speedometer, altimeter, fuel gage, etc.)