

James Callan

Software Engineer

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Education

Swansea University (2018-2022)

Bachelor of Science

- Software Engineering
- First Class Honours

Languages

- Java
- C#
- JavaScript
- Kotlin
- Python
- Blueprints (UE5)
- C++
- C
- HTML

Methods

- Git version control
- Agile development
- SCRUM
- Object Oriented Design

Technologies

- Unity
- Node.js
- SQLite
- Firebase
- Unreal Engine
- RESTful Web Services
- Photon Engine PUN

University Modules

Software Testing, Writing Mobile Apps, Advanced Object Oriented Programming, Data Representation, Introduction to Video Games Programming, Markup Languages and Web Services.

Projects

Maze Bounce

- > An Android puzzle game featuring thousands of randomly generated mazes of different sizes.
- > Thousands of customisation options.
- > Includes cloud saving and achievements.
- > Currently available on Google Play.
- > Utilised: Unity, C#, AdMob, Unity IAP, Unity Cloud Save, Google Play Games.

Artemis

- > An open source Minecraft mod.
- > Added multiple features.
- > Custom & modified screens.
- > Information display enhancements.
- > Utilised: Java.

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- > Discord bot that reads from a public API and stores the information in a database.
- > Uses the database to deliver formatted information.
- > Utilised: Node.js, SQLite, JavaScript

Accessible Codenames

- > Created an Android application of the board game 'Codenames' featuring a strong focus on accessibility.
- > Featured an offline and an online mode using a custom server.
- > Utilised: Kotlin, Node.js, JavaScript.

Introduction to Video Games Programming Coursework

- > Created a Pac-man styled game in Unity featuring multiple levels and playable characters with unique power ups.
- > Included leaderboards and achievements as persisting data.
- > Reviewed other students code and provided feedback.
- > Utilised: C#, Unity.