

# ANDREW HOLLIGAN

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## EDUCATION

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**MSci Computing Science, University of Glasgow**

September 2022 - May 2027

**St Ninian's High School**

August 2016 - June 2022

- Advanced Highers - Computing Science (A) | Mathematics (A)
- Highers - Computing Science (A) | Mathematics (A) | Physics (A) | Chemistry (A) | English (A)
- National Progression Awards - Cyber Security (SCQF Level 6) | Computer Games Development (SCQF Level 6)

## EXPERIENCE

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**Software Engineer, Glasgow University Software Service**

October 2024 - Present

**Coding Tutor, Code Cadets**

January 2023 - Present

- Teaching Python, HTML, CSS, and JavaScript to children
- Explaining complicated concepts in a way children can understand

## PROJECTS

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**GridSweeper** | *React, TailwindCSS, TypeScript, ASP.NET*

[gridsweeper.net](https://gridsweeper.net)

- Online multiplayer web game inspired by Minesweeper
- Backend ASP.NET server with REST API endpoints and websocket communication
- Used EntityFrameworkCore to manage data models in a PostgreSQL database
- Utilized JSONWebTokens for managing account sessions
- Integration tested endpoints and unit tested game logic, ensuring proper database interaction and functionality

**D2Tracker** | *React, TailwindCSS, TypeScript, Bungie API*

[d2tracker.net](https://d2tracker.net)

- Stat tracker site for Destiny 2 which displays and compares player stats
- Used Bungie API and worked with large complex response json's to compute player stats
- Optimized performance through parallelizing API requests and LRU caching player data in local storage
- Used versioning to ensure data consistency in local storage when updates occurred

**Pantry** | *Django, Team Project*

[andyh.pythonanywhere.com](https://andyh.pythonanywhere.com)

- 2nd year university team project, food social media site
- Developed the HTML templates, CSS, and JavaScript for the project, along with contributing to the views
- Participated in regular meetings to discuss progress, challenges, and feature development

## TECHNICAL SKILLS

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**Languages** | Java, Python, SQL, C#, HTML, CSS, JavaScript, TypeScript

**Technologies** | React, ASP.NET, Express.js, Django, MySQL

**Developer Tools** | Git, VS Code