

ANDREW HOLLIGAN

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EDUCATION

MSci Computing Science, University of Glasgow

September 2022 - May 2027 (Expected)

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

Software Engineer, Glasgow University Software Service

October 2024 - Present

- Implemented continuous development pipeline with GitLab CI/CD on DigitalOcean Ubuntu droplets

Coding Tutor, Code Cadets

January 2023 - Present

PROJECTS

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

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
- Endpoints and game logic tested with integration and unit tests, ensuring correct database interaction and functionality

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

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

SortingVisualised | *HTML, CSS, JavaScript*

sortingvisualised.netlify.app | [Code](#)

- Visualisation of sorting algorithms, developed in pure HTML, CSS and JavaScript
- Used canvas to animate sorting and optimized by storing only initial array and swap indices
- Implemented controls for sorting speed and array size adjustments

TECHNICAL SKILLS

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

Technologies | React, ASP.NET, Express.js, Django, MySQL, PostgreSQL, MongoDB

Developer Tools | Git, VS Code, Figma