ANDREW HOLLIGAN

andrewholligan.co.uk | github.com/andrew-holligan | andrew@andrewholligan.co.uk

EDUCATION

University of Glasgow   September 2022 - May 2027 (Expected)

- **MSci Computing Science:** 1st Class Honours (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
- Sole developer for a digital tool project structuring investment decisions, responsible for full-stack development using Django

Coding Tutor, Code Cadets   January 2023 - Present

- Teaching Python, HTML, CSS, and JavaScript to young learners, simplifying concepts for better understanding

PROJECTS

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

- 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*   Live

- Stat tracker site for Destiny 2 which displays and compares player stats
- Used Bungie API and worked with large complex response JSON objects to compute player stats
- Optimised 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*   Live | 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, Docker, Django, MySQL, PostgreSQL, MongoDB

Developer Tools | Git, VS Code, Figma