

Matthew Lockhart

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[GitHub](#)

[LinkedIn](#)

[Website](#)

Personal Profile

BSc (Hons) Computer Science student from the University of Hull with a passion for programming. I am looking to develop my career with a company that is supportive of enhancing skills and personal development within a challenging environment.

Technical Skills

Languages: C#, C++, Python, Rust, CUDA, GLSL, HLSL, HTML, CSS, JavaScript

Frameworks: Flask, .NET, PyTorch, Bootstrap, Windows Forms, ASP.NET

Databases: SQLite, SQL Server

Project Management: Agile, Waterfall

Engines: Unity

API: OpenGL, Twitter API

Education

University of Hull, Sept 2021 – June 2024

BSc (Hons) Computer Science (1st Class Degree Expected)

- Developed a Machine Learning Model using PyTorch to identify illegal wildlife trade taking place on Twitter using live tweet data via a custom Twitter data scraper using Twitter API, hosted on a website developed with Flask utilizing a Python written backend with an SQLite database for user sign-up, authentication, and user-information.
- Created an ASP.NET Web API with various functionalities showcasing user authentication and authorisation.
- Created and managed a SQL Server in an ASP.NET Web API for user accounts, logs, and archives.
- Developed proprietary software for an E-Commerce company using C# and .NET to analyze and improve their advertising keyword campaigns.
- Developed a Mixed Reality application for use with Google HoloLens 2.
- Created a 3D Pac-Man style game using a custom-built engine (C# + OpenGL) with modular systems such as AI, Rendering, Physics, Audio, and other gameplay mechanics using component-based architecture.
- Created a 2D Capture the Flag game with a custom university campus map through unity using agile development methodology.
- Created a C++ program to solve valid sudoku puzzles.

See website for further explanation and examples of projects.

Work Experience

Yorkshire Water Features, April 2016 – Present Various Construction Roles

Worked in a client-facing bespoke water feature design, construction and installation company working as various roles from general labor and construction to assisting electricians with wiring of large-scale commercial water-features.

- Speaking to clients, explaining their products and how to interact with the software available to them (Pump controllers, light controllers).
- Being a part of the process from negotiations and design to completion.
- Working in a ground team of up to 10 workers over an extended period of time.

Additional Education, Training and Membership

- Member of the British Computer Society.
- Beginner-Intermediate command of the Swedish Language.

Other Education

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| A-Levels, Hill House School, | Sept 2018 – July 2020 |
| Business Studies – A | |
| Classical Civilisation – B | |
| Economics – C | |
| EQP – C | |

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|--------------------------------------------------------------------------------|------------------------------|
| GCSEs, Hill House School, | Sept 2007 – July 2018 |
| 10 GCSEs (A – C) including Higher Math, English, Computing and Triple Science. | |

Interests and Activities

I am passionate about fitness and the outdoors which I enjoy through running, hiking, mixed martial arts, wild-camping, and weight training.

I also enjoy playing and developing games, I continue to improve my skill by creating small to medium sized projects both solo and with friends.

Full Clean Driving License with own transport.