

# Marc Gallacher

marc.gallacher10@gmail.com | (+44) 7478 307986 | Glasgow  
linkedin.com/in/marcgallacher

## Profile Summary

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A motivated individual with a strong passion for computing and technology, which led to studying the subject at university. Eager to continually develop skills, with a solid foundation in Python, Web Development, AI, and Cyber-Security. Enjoys collaborating with others, with strong communication skills and a friendly, outgoing nature that helps build positive team relationships. Always looking to support others and learn from those around them. A confident problem-solver who thrives on new challenges and finding practical, creative solutions. Excited to expand both technical knowledge and real-world experience in a dynamic, supportive environment.

## Education

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**Bachelor of Science:** Computer Science  
**University of Strathclyde**, Glasgow

**09/2021 – Current**

**Higher:** Computing (A), English (A), Music (A), Maths (B), Physics (B), Chemistry (B)  
**Holy Cross High School**, Hamilton

## Key Skills

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- ◇ **Proficient Languages:** Python, JavaScript, HTML, CSS, Java, PHP.
- ◇ **Cyber-Security:** Knowledge of secure coding, password hashing, and safe data practices.
- ◇ **Databases & SQL:** Experienced with relational databases including MySQL and PostgreSQL, and proficient in writing SQL queries.
- ◇ **Backend Development:** Skilled in managing backend data operations using Flask and designing effective data models with SQLAlchemy.
- ◇ **Project Management:** Thrive in collaborative environments and consistently deliver projects on time.
- ◇ **Problem Solving:** Enjoy creative thinking and tackling technical challenges.
- ◇ **Teamwork & Communication:** Strong collaborator with excellent interpersonal skills.
- ◇ **Work Ethic:** Reliable, motivated, and eager to improve.
- ◇ **Additional:** Full UK Driver's Licence.

## Past Projects

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### 1. Coding for Kids – Teaching Students to Code

*JavaScript, HTML, CSS, Pyodide, Blockly, Python, Flask*

Developed an interactive, story-driven game to teach coding fundamentals to 10–14 year olds. The game uses block-based programming to allow users to complete tasks which are translated into real Python code. Lessons cover variables, conditionals, loops, and functions, with real-time feedback and quizzes.

Included a login system, task validation, free play mode, and a Flask backend with SQLAlchemy to manage users and progress. Successfully tested in a real classroom, proven to increase knowledge retention and test results, with positive feedback on engagement and motivation.

## 2. MindCraft – Mental Health & Wellbeing App

*JavaScript, HTML, CSS, Google Maps API, External APIs*

Built a web app to support wellbeing through mood tracking, daily quotes, and nearby green space suggestions. Prioritised clean design and smooth API integration to enhance user experience.

## 3. Art Shop E-Commerce Platform

*PHP, MySQL, PHPMysqlAdmin, CSS*

Created an e-commerce site where users can browse, search, and purchase artwork. Developed product listings, user accounts, and admin tools with a focus on simplicity and usability.

## 4. University Student Management System (USMS)

*Java, SQL, Database Management*

Worked on a Java system to manage student, module, and lecturer records. Built features for registration, grading, and data validation using a relational database backend.

## 5. Cryptogram Puzzle Game

*Java*

Designed and implemented a game to help users decode encrypted messages. Contributed to game logic and interface, emphasising engagement and problem-solving.

## Work History

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### **Camp Counsellor** at *Trails End Camp, Pennsylvania, USA*

**June 2024 – August 2024**

- ◇ Supervised a group of 30, 16-year-olds in a busy and challenging camp environment.
- ◇ Managed conflicts among campers and counsellors, improving conflict resolution skills.
- ◇ Adapted to new responsibilities and learned quickly in a fast-paced setting.
- ◇ Contributed to a positive and inclusive atmosphere, encouraging teamwork and personal growth.

### **Customer Assistant** at *Tesco*

**July 2023 – June 2024**

- ◇ Provided friendly and efficient customer service at checkouts, handling transactions and resolving queries.
- ◇ Maintained well-organised and fully stocked shelves, ensuring accurate displays and availability.
- ◇ Collaborated effectively with colleagues in a fast-paced retail environment.

### **Customer Assistant** at *Greggs*

**July 2021 – June 2023**

- ◇ Handled cash transactions and balanced tills accurately during opening and closing procedures.
- ◇ Maintained high standards of food safety and cleanliness in line with hygiene regulations.

## Hobbies

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*Football, Gym, Piano, Coding, Web Development*