



SIAN STEEL

Full stack developer

ABOUT ME

A former ecologist and administrator, I've taken the initiative to self fund and teach myself the skills to move into a career that I am passionate about. I particularly enjoy front-end development and design, as well as finding creative ways to problem solve. In addition, I bring key skills from my previous roles such as communication, project management and customer service.

PROJECTS

Esports API Webserver

[GitHub repository](#)

- Built with Python, PostgreSQL, Marshmallow and SQLAlchemy using the Flask framework.
- A relational database and API for an Esports tournament. Designed by first creating a normalised ERD. HTTP requests followed REST conventions and CRUD functionality provided for all resources.
- The web server keeps track of players, teams and scores. Anyone can view the leaderboard and team stats. Players and admins must log in and require authentication and authorisation to edit via JWT.

Python Terminal Game

[GitHub repository](#)

- Built using Python with a shell script to run the game in the terminal. Unit tested with PyTest as well as manual test cases.
- The app is a turn-based 1v1 fighting game. The Simple Terminal Menu package was used to enhance the navigation experience. ASCII art is displayed upon starting and when the game is over.
- The game allows players to view character stats, select a character, perform a basic or special attack and use health items or power ups. When the game ends they can choose to restart or quit.

CONTACT

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SKILLS

React | Express | Flask

JavaScript | Python | HTML | CSS

Node | MongoDB | PostgreSQL

Problem solving | Communication

Project Management

EDUCATION

Diploma of IT 2023
Coder Academy

Biodiversity & Conservation MSc 2017
University of Leeds, UK

Environmental Science BSc 2016
University of Leeds, UK

PROJECTS

Portfolio Website

[Website](#) [GitHub repository](#)

- A static website built with HTML and CSS to present myself as a developer and display my work.
- Planned in Figma and created using a mobile first approach. Flexbox and media breakpoints were used to optimise each page relative to screen size.
- The layout consists of Home, About, Projects and Blog pages and can be traversed using the navigation bar. A clickable logo can be used to return to the home page as well as logo links to social media which were made using Inkscape.

VOLUNTEERING

Writer

Canal & River Trust 2020-2021

- Wrote a series of articles on mental health and nature.
- Refactored technical concepts into more digestible content

Content Editor

Plastic-Free Me 2017-2019

- Wrote, edited and managed content for the website and social media accounts.
- Presented at a sustainability conference at the National History Museum in London.

WORK EXPERIENCE

Ecologist

Futures Ecology, 2021-2022

- Produced concise technical reports and associated habitat and species plans using QGIS.
- Analysed thousands of bat echolocation sound files allowing reports to be produced on time.
- Utilised survey data and local records to make recommendations to the client.

Assistant Ecologist

FPCR, 2020-2021

- Provided workshops for five team members on the use of mapping software which resulted in the workload being spread more evenly within the team.
- Designed figures to present hundreds of data points from a large project in an innovative way, garnering high praise from colleagues.
- Managed three construction planning projects including client liaison and budget.

Business Development & Marketing Assistant

NIHR, 2019-2020

- Adapted a Google site into a project tracker accessible by the whole team, collating project information in one place and making task deadlines easier to track.
- Gained knowledge in the elements of social media including planning and scheduling posts.

Helpdesk Assistant

Leeds University Union, 2015-2017

- Problem solved customer queries, sold tickets and provided administrative support.
- Won an award as a team for taking on some of the responsibilities of two other departments during a large-scale upgrade of the Union building.