






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.

CONTACT

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SKILLS

React | Express | Flask
JavaScript | Python | HTML | CSS
Node | MongoDB | QA testing
Problem solving | Communication
Project Management

EDUCATION

Diploma of IT - Web Development Academy of Interactive Technology	2023
Biodiversity & Conservation MSc University of Leeds	2017
Environmental Science BSc University of Leeds	2016

PROJECTS

Full-stack Quiz Application

[GitHub repository](#)

- The front-end was built with JavaScript, HTML and CSS, using the React framework.
- The back-end was built with Node.js using the Express framework and Mongoose as the ODM. The database used was MongoDB.
- Both manual and automated testing were completed using the Vitest and Jest packages.
- HTTP requests followed REST conventions.
- The application allowed users to take, create and edit quizzes and was designed as both an educational and entertainment tool.

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 was 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.

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.

PROJECTS

Python Terminal Game

[GitHub repository](#)

- A turn-based 1v1 fighting game built using Python with a shell script to run the game in the terminal. Unit tested with PyTest as well as manual test cases.
- Features include view character stats, select a character, perform attacks and use health items or power ups.

Portfolio Website

[Website](#)

[GitHub repository](#)

- A static website built with HTML and CSS.
- 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 site can be traversed using the navigation bar with a clickable logo used to return to the home page. Links to social media were created using Inkscape.

WORK EXPERIENCE

Administrative Assistant

University of South Australia | 2022

- Troubleshooted issues with accessing an important database & provided a solution to resume its use.
- Carried out a literature review to inform the creation of a report on antibiotic consumption.

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 data 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.