

Michael Walters

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Full stack Website developer

About Me

I'm a Full stack Web developer with a background in Geophysics/utility surveying, I began retraining into a new career in 2023. I have a good track record of project management and take pride in my work. My self motivation and problem-solving skills have been pivotal in my retraining and continuing development.

Coding Experience / Projects -

Company Directory -

<https://michaeljohnwalters.co.uk/directory>

A company database with methods to create, read, update and delete records across related employee, department and location tables using SQL. The site utilises bootstrap to provide a clean and easy to use UI, and PHP to interface between the server and front end. This project demonstrated many of the skills developed over the course of the ITCareerSwitch programme.

Technology used:

HTML, Native CSS, Bootstrap, Javascript, JQuery Responsive design for mobile users, PHP, MySQL, NodeJS

Gazetteer -

<https://michaeljohnwalters.co.uk/gazetteer>

A program allowing the user to gather information about any selected country, ranging from currency & weather to news articles, Gazetteer makes use of the LeafletJS package extensively, displaying custom markers for landmarks, towns and other points of interest & displaying country borders from JSON data. The application relies on PHP in the back end to make calls and handle data from numerous 3rd Party APIs.

Technology used:

HTML, Native CSS, Bootstrap, Javascript, JQuery Responsive design for mobile users, PHP, NodeJS, Geolocation

Wizdumb -

<https://wizdumb-app-a832fc305640.herokuapp.com/>

A knowledge hub for aspiring coders/web developers, allows learners to register for an account, add interesting topics to their profile, and discuss resources on its integrated forum, uses YouTube's API for integrated players for video resources. Users, topics resources & forum posts are handled using GraphQL and stored on a MongoDB server. UI is very clean and polished across any device thanks to Media queries and Tailwind CSS framework.

Technology used:

HTML, Native CSS, Tailwind CSS framework, Javascript, Responsive design for mobile users, ReactJS, ExpressJS, MongoDB, GraphQL, Bcrypt, NodeJS, JSON Web Tokens

Ludicrous display -

michaelw1996.github.io/projectLudicrousDisplay

A site to check up on the match history and some information/trivia for Premier League teams, allowing you to seem knowledgeable about football, perfect for speaking to the postman or being in a pub on match day.

Technology used:

HTML, Native CSS, Bulma CSS framework, Javascript, 3rd party APIs for data retrieval, Responsive design for mobile users.

Technologies/Languages -

MongoDB
MySQL
GraphQL
Python
PHP

Javascript
ExpressJS
ReactJS
NodeJS
Git/Github

HTML
CSS
Tailwind CSS
Bulma CSS
Bootstrap CSS

Work /Employment History -

CodeYourFuture	Non-profit Training Company	July 23 - Ongoing
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CodeYourFuture is a non-profit which helps train refugees and those on a low income to gain the skills they need for a career in tech. My role in the organization is to assist students in their learning and troubleshoot issues they run into, I also conduct code reviews & provide feedback.

WSP	Engineering Consultancy	Feb 22- Feb 23
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WSP is a Multinational Engineering consultancy, My role involved working with water companies across the UK to provide utility surveys and advise on geophysics in the preconstruction phase & managing a small team to undertake fieldwork.

Transferable skills:

Project Management, Time & resource management, effective & professional communication

RSK	Environmental Engineering Consultancy	April 19- Feb 22
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RSK is a Multinational Environmental Engineering consultancy, My role involved working with various companies across the UK to provide utility surveys and geophysical investigations. My clients included: Network Rail, HS2, Highways England, National grid & Numerous councils. Training, mentoring and managing graduates formed a large part of my role in this time.

Transferable skills:

Project Management, Time & resource management, effective & professional communication, creation/curation of training materials.

Rook Services Ltd	Construction Consultancy	Aug 15- April 19
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Rook Services Ltd is a small construction consultancy, My role involved working on various contracts across the UK to provide utility surveys to clients included: Highways England, Virgin Media, homebuilders & local authorities. This role demanded a strong work ethic and flexibility due to the small size of the business & high paced work environment.

Transferable skills:

Project Management, Time & resource management, effective & professional communication, ability to learn and thrive in a high pressure environment.

Education -

GenerationUK	Data engineering programme	May 24
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GenerationUK's Data engineering programme comprises extensive training in Python, Pandas, SQL, Docker & AWS to prepare learners for a career in data engineering or back end development & to drive greater understanding of data structures, Object oriented programming & Test driven development. The programme also incorporates an element of Group work requiring substantial project & resource management.

ITCareerSwitch	Full stack web development programme	Aug 23 - May 24
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The Full stack web development Programme provided by ITCareerSwitch is a self-guided learning experience utilising Codecademy materials to begin with and evolving into working with tutors to create projects to demonstrate learning of learning. The Programme focused on PHP, Javascript, MySQL. The program relied on my ability to self motivate & time management.

University of Birmingham	Full stack web development bootcamp	Jan 23- July 23
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The Full stack web development bootcamp provided by the University of Birmingham is a 6 month intensive course of around 840 hours of learning. The bootcamp focused on a MERN (Mongo, Express, React & Node) stack with some additional technologies such as GraphQL and SQL incorporated for a more rounded experience. The program contained a mix of solo and group work, allowing me to use my developed project management skills in a new setting.

North East Worcs College	Electrical engineering certificate	Sep 13 - July 15
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HND in Electrical and electronic engineering, which helped me develop skills such as using CAD (computer aided design) software, problem solving skills, time management & greater proficiency in MS Office suite.