



# Matthew Warner

Software Developer

## About Me:

I am a driven software developer seeking to tackle challenging problems and gain hands-on industry experience. With a passion for continuous learning, I actively seek out new skills and knowledge. I enjoy experimenting and building new projects, and my interest in cybersecurity drives me to continually improve my OpSec. When not coding, I can be found rock climbing or practicing my Spanish with hispanohablantes.

## Current Projects:

### Rock Climbing Route Comparison:

◆ [climb.wird.uk](https://climb.wird.uk)

A data visualisation project, it is a web app that uses React and D3.js, and brought to you with MongoDB and Cloudflare. Users can use the existing dataset as well as add in their own in order to visualise the relationship between a rock climbing route's maximum difficulty and its sustained nature in relation to its given difficulty rating. It is written with javascript and typescript and uses an api written with typescript to communicate with the database. Prototyping involved Flask, Docker and Django as well as python scripts.

## Portfolio:

### My Website:

◆ [mtt.wrn.r.uk](https://mtt.wrn.r.uk)

A portfolio website written with Nextjs and Tailwind hosted on Cloudflare Pages.

### USB Password Manager:

◆ [github.com/mattcwarner/USB\\_HID\\_PASSWORDS](https://github.com/mattcwarner/USB_HID_PASSWORDS)

Based on the rp2040 micro-controller this device encrypts a plain-text .csv file exported from your favourite password manager. When you need it it inputs the passwords over USB for you so you don't have to remember long passwords. This project involved prototyping, AES encryption and circuit-python.

### Finger Rehabilitator:

◆ [github.com/mattcwarner/finger\\_injury\\_rehab](https://github.com/mattcwarner/finger_injury_rehab)

◆ [youtu.be/ww020AGduLs](https://youtu.be/ww020AGduLs)

A program for rock climbers and physiotherapists to progress recovery from finger injuries. An object-oriented Python desktop application which uses Tkinter, Matplot, Pytest and SQLite to guide and visualise progress.

- ➔ [jobs@mtt.wrn.r.uk](mailto:jobs@mtt.wrn.r.uk)
- ➔ [github.com/mattcwarner](https://github.com/mattcwarner)
- ➔ [linkedin.com/in/matt8cwarner](https://linkedin.com/in/matt8cwarner)
- ➔ [mtt.wrn.r.uk](https://mtt.wrn.r.uk)

I have experience with **HTML, CSS, Javascript, Typescript, React, Nextjs, Tailwind, D3.js, SQLite, PostgreSQL and MongoDB. Python, Micro-python, Circuit-python, Flask, Django. Linux. Git. Docker.**

## Education:

### Oxford Brookes University.

BSc Hons. Anthropology, Environmental Sciences.

### CS50: Harvard University

online computer science courses CS50x and CS50p, problem sets and final projects in Python and C languages.

## Employment:

**Rope Access Technician,** Abseiling and climbing, responsibility for safety.

### Outdoor Activities Instructor,

Dorset, UK. Various Roles. Leading groups and managing teams in high risk environments.

**Hospitality:** Bar and Waiting roles. Various Employers.

## References:

*Available on request.*