Alfie Martin

E: alfie.martin@hotmail.co.uk **L:** https://www.linkedin.com/in/alfie-martin99 **T:** +447528559068
G: github.com/alfiemartin

Professional Experience

Alba Mind App

- Created the https://Socially-Distant.me ad campaign website for Alba Mind.
- Socially-distant was created using NextJS, SCSS and TypeScript.
- The site prompts a user to enter some basic information using buttons and sliders.
- The sliders were built using MaterialUI's Slider component with custom styles.
- Users can also sign up to the Alba Mind mailing list from this site.
- Once the data is entered by the user, a result is calculated. This calculation is the number of "human interactions" one has missed out on due to Coronavirus and lockdowns over the past year.
- The data entered is stored in state using reacts useState hook.
- The design for the website was given to me from a designer and features responsive design.
- Deployed using vercel.

neurify – Co-Founder/ Technical Director
(September 2020 – Present)

- Worked with my brother to develop 'Smart Landing Page' software, which allows social audiences to be segmented into highly granular lists, for use in social or email retargeting.
- This involved the use of Facebook Pixel
- Developed the https://www.neurify.co.uk/ website.
- This was made using WordPress and Elementor with some custom CSS and JavaScript/jQuery.
- The design of the site was partially given by my brother however I also contributed to some design aspects when we disagreed on certain features.
- Use of PHP and SQL for database communication. Quiz data such as questions and possible answers were stored on a database. PHP retrieved this information using SQL.
- The quiz data was "converted" into interactive HTML quizzes which were pre-styled using CSS.
- The idea was fast release of quizzes without the need of actual programming for each quiz.
- Experience managing a web server.

RDMTechnology

- Redesigned of the outdated www.rdmtechnology.co.uk website.
- Used NextJS and TailwindCSS to impliment my design.
- Used the IntersectionObserver to animate HTML elements on scroll-into-view.
- Added a contact form.
- Added responsive design to the page for viewing on mobile and desktop.
- Used the next build and next export features to generate static HTML, CCS and JS files.
- This was done since the original site was hosted on a basic server.
- Used FileZilla to FTP these static files to the server.

Personal Projects

Portfolio: **www.alfie-martin.co.uk**
Code: http://www.github.com/alfiemartin

TapFlash Game
- A basic game based on memory and perception.
- Coloured buttons are randomly arranged onto the webpage.
- A Poisson Disc library was used to created the random arrangement of buttons.
- This was done to avoid any buttons overlapping each other.
- My original idea was the use of nested loops to check that each position was "safe".
- However this calculation is extremely slow and could even cause a complete crash due to $O(n^2)$.
- I researched and found the Poisson Disc algorithm to reduce the complexity.
- React was used for the front end.
- User authentication was done using Firebase.
- A players score is sent to a database using Firebases Firestore.
- Other players scores are retrieved on the leaderboards too.
- This project was also deployed using firebase hosting. SCSS was used for styling.

Basic Chatroom
- A basic database chatroom application.
- Uses the same stack as Tapflash.
- Using Firebase's Firestore for messages and Firebase authentication for sign in.

Current Projects

Homepage Creator
- A website where users can login using Firebase Authentication.
- Users can drag and drop different elements into the canvas to design their own homepage.
- This includes Text, Images, Clocks and other components.
- The page is stored in a database using MongoDB.
- When a user returns, the previous state of their homepage is automatically loaded by query of the database.
- Client uses React with typescript.
- Backend will use node with MongoDB and express to retrieve data.

Social Media Clone
- Using existing social media as a design guide.
- Creating a full responsive application.
- Users will have the ability to view posts, create posts and add comments and likes.
- The aim of this project and the Homepage projects is to bring many aspects of my previous projects together into full featured applications with thoughtful file structure and coding practices.

Skills

Javascipt	Git
HTML5	React
CSS3	NextJS
CSS Frameworks	Firebase
Typescript	MongoDB

Education

Higher Education:

Newcastle University, Electrical and Electronic Engineering Beng with final year project (Digital Audio Processing Using Multicore Microcontrollers) (2.2)

A-Levels:

Chemistry: A
Physics: A
Maths: A

Biology (AS): A