

# Michael Phillips - Curriculum Vitae

**C# - blazor - html5 - react - AWS**

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## Skills

- Highly creative and a good communicator.
- Logical attitude to problem solving/solution finding.
- 21 years commercial development experience.
- Deep understanding of .net and cloud technologies.
- Extensive experience of html5, java script and CSS.
- Strong Debugging skills and Unit Testing skills.

## Interests

Playing Classical Guitar and Photography

## Portfolio Page

<http://www.area2.co.uk>

## Tech Stack

c#,react blazor, AWS, noSQL, SQL, JavaScript, asp.net, html5, json, razor, mvc dot net core, entity frame work, bootstrap, xml, css, wpf, wcf, mvc, XSLT, Progress, C, python, jquery, bootstrap, vb, Regex, Terraform

## Software

Visual Studio, VSCode, Sql Server, dev-ops, Azure, AWS cloud, GIT, Google Chrome Developer Tools, Postman, Ms Office, Excel, Word, Access, Outlook, Windows all versions, Linux.

# Testing frame works

Cypress, Chutzpah, Selenium, Jest, Cucumber, katalon, NUnit, xUnit.

## Professional Experience

### Arken Legal April 2022 – May 2023

Here I working using Amazon AWS react and Blazor. These were systems that collected information to create a Will. The Front end was a very rich and complex UI. I created a build server on GitLab that deployed the application to AWS. Here I learnt to creating testing scripts in Cypress. The main application had an SDK for creating questionnaires relating to the will and allowing other applications to import clients and requests for wills.

### Iress Jan 2022 – April 2022

At Iress I have worked on new trading application. We used Amazons AWS cloud and react.js. Here I have had also had exposure with terraform.

### Mortgage Brain Oct 2006 – Nov 2021

Mortgage Brain provides mortgage sourcing information and mortgage sourcing software. I work on an application called the Key which is an acclaimed client management and sourcing system for mortgage brokers.

I have been responsible for many aspects of the application, of which the most relevant are listed below.

#### CRM Brain

Here I have been the lead developer working on a green field project to rework a legacy system into a web application. I have been responsible for the architecture and have used MVC dot net core.

The 3<sup>rd</sup> party client file libraries have been managed with unpkg via libman. The custom client side JavaScript has been managed using the babel transpiler with the bundling and minification being automated using the Mads Kristensen extension in Visual Studio. I have also used the fetch API extensively with poly fills for outputting JavaScript that is compatible with es5. I also have made extensive use of Vu.js and moustache.js.

I have used bootstrap 5 SASS files and some custom SASS files to manage a global set of configurable look and feel settings deliverable in CSS files. I have had the opportunity to work with UX experts to enable the delivery of a highly accessible and responsive UI.

The server side rendering has been done using razor and partial views and leveraged the use of custom made tag helpers. The front end (presentation layer) communicates with the back end (data layer) via rest APIs that in turn use the Entity frame work.

I have used the Azure cognitive services to extract key words from uploaded documents. This was to provide a suggested list of tags for a user to choose to associate with a document.

I have worked in a small team adhering to agile principles and having daily stand up calls and twice weekly sprint and review/show and tell sessions.

## **The Client Portal**

I was the sole developer responsible for the creation of the client portal. This is a facility for clients to fill in their fact find information online.

This application introduced the first restful web API services to be used in Mortgage Brain. It has proven itself to be very popular and fulfils a previously unexplored market requirement. It is designed to work across multiple platforms and renders well on mobiles and tablets. I have created it using MVC JavaScript, jQuery, bootstrap and html5.

It also introduced some architectural changes into the key. The first being the introduction of c# and secondly the separation of concerns for the application so there is now a much clearer definition of a business layer, a data layer and UI.

## **Advisor Portal**

Again I have been solely working on the Advisor portal. The Advisor Portal will become the Key Anywhere.

This uses dot net core and its creation has involved an entire migration of the existing server.

This has allowed me to explore some more of the web based UI features and include things like a bread crumb sentence. This will end up as a much more user friendly way to navigate the applications.

## **Reporting**

Both the ad hock reports and custom reports are modules I have worked on exclusively.

I have pioneered various customizable reporting features that allow the users to easily create and store reports.

This has a carefully thought out UI which has allowed users to query complex data more easily and intuitively.

## **The Insurance SDK**

The insurance integration SDK allows other companies to write applications that can update and create insurance products in the main application.

This has been very successful with our customers and has been heavily used by various corporates including Countrywide. It was an interesting project from which I gained an insight into creating a publicly available SDK for other developers to use.

## **The modernization of the win forms Key UI and menu.**

There was a request for a new look and feel project for the menus and navigation in the win forms application. This I achieved by using WPF. This has provided a very rich user interface.

At Mortgage-brain I have learnt a lot about working on larger applications with both developers and contractors as well as having responsibility for some specific modules. I have also had a lot exposure to the mortgage industry and its legislation. I have been very pleased to see the introduction among the key team of some standardized routines using techniques I have developed.

More recently I have worked as a mentor with the graduate developers I have really enjoyed doing this. This has captured my interest in managing people. It has also highlighted to me how currently there is a vast unexplored area in getting individuals working together and as a team. Also mentoring with the graduate developers has highlighted to me how important it is to credit the correct individuals for their contribution to work.

## **Holden Pearmain Research Nov 2005 – Oct 2006**

Holden Pearmain are a leading market research company. In this post I used .net 2005 and aspx plus excel vba along with SPSS. I was working with a team of developers. I used excel vba to create specific and detailed charting applications using market research data. These applications allowed you to simulate the outcome that various choices would have on a specific market. It uses an aggregated dataset taken from a large survey of people. I also used .net 2005 with Microsoft office for automation of various processes and for batch processes. Courses attended included 4 day course at Learning Tree in asp .net 2 and I have developed web solutions using this technology and XML / xlst.

## **Darwin Consultants April 2005 – Nov 2005**

I worked with a team of developers on a facilities management application. I wrote some complex data migration and data cleansing programs for the new version of the system. I gained more experience of stored procedures and SQL create scripts along with more exposure to ADO.net and .net 2003. The application we delivered was a multi-tier database, which can be either run in a distributed environment or as a standalone application. It was developed using object-oriented concepts with a strong focus on the Microsoft developer Rockford Lhotka CSLA.net framework.

## **GPM Development Nov 2003 – April 2005**

I was employed here as a VB developer. I was working with a team on two large existing projects one for insurance companies and the other for metal brokers. I have also developed web pages, Intranet sites and specific bespoke vb/vba solutions for clients. I have gained experience of making a complex online ratings program for insurance brokers; this was written in asp and uses sql server as a back end. I have also gained experience of maintaining and bug fixing complex existing programs. I also used IBM Universe objects both in visual basic and in UNIX. I wrote some complex applications to predict the profitability of exports for metal brokers these programs exported data sets from large databases and displayed the output in various excel worksheet in both graphs, pivot tables and as raw data. To do this I used vb6 with IBM universe Objects to extract the data from the database and for the output I used vba excel/excel object model. I also gained experience of using ADO, RDO and DAO in access VBA for various import and export routines.

## **Sutton and East Surrey Water Board Dec 1997– Nov 2003**

I was the team leader for the systems and development team. I manage a team of 3. Here I attended numerous courses in the use and administration of our in-house UNIX based billing system. I have obtained a diploma in the use of Ms-Access vba and Visual Basic for Applications in both Word (vba) and Excel (vba) also in .net 1. I have also attended courses in progress and in VB6 - ADO. I wrote a large number of programmes one of which was for their E-billing. I wrote this using vb.net as a front-end against a progress database. I was extensively involved developing in- house applications and did all the reporting for Offwat (the governing body of water boards). I learnt a great deal about access vba and excel vba. Here I wrote many applications from mini applications in Microsoft office products to full grown relational databases. These ranged from a COM add in that could be run in excel, to calculate the average consumption of water in property based on the number of inhabitants and the location. To a complex database that could send and store e-bills (electronic water bills). I also gained a lot of experience of cleansing data and formatting data from many formats to be uploaded into a main live system.