

# OWEN PIERCE

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## EDUCATION

### UNIVERSITY OF LINCOLN

#### Web technology BSc

**Grade:** 2:1 (68%)

- Creative Technologies
- Database Systems
- Group Project
- Human-Computer Interaction
- Information Systems
- Introduction to User Interfaces

- Introduction to Web Technologies
- Web and server technology
- Problem Solving
- Project Management
- Software Development
- Social computing

- Network and network systems
- Project preparation
- Project
- Professional practice
- Social applications development
- Entrepreneurship and innovation
- Web and server technologies

### HUGH BAIRD COLLEGE

#### ICT BTEC National Diploma

**Grade:** Triple Distinction

## SKILLS

Stated below in no particular order are languages/technologies I have attained significant experience using over the past few years.

- C#
- WPF
- JavaScript
- C++
- VB6
- SQL
- Team city

- PHP
- ASP.NET Dotnet Core MVC/API
- GraphQL
- BuildMS
- Nuget Server
- Unit testing
- Azure
- Octopus

- HTML5
- CSS3
- JQuery
- Angular 7
- AngluarJS
- KnockoutJS
- Bootstrap
- Docker

## PROJECTS

### MdInsurance Extranet

I worked on the MDInsurance Extranet project from the start up to go live. The tech stack included technologies including Angular 6, Dotnet core and GraphQL and Entity framework. I was the first developer to work on this green field project and trained up several perm developers and 3 contractors to work on the project. The business where happy with the work done and are now ready to deliver to the customer.

### Horse Place web API

I developed a web API for Betfred for providing information from horse races meetings. The majority of the work on this project has been integrating third party providers who we get data from. This was developed using C# Dotnet core 2, SQL, stored procedures, Dapper, AWS, Teamcity and octopus deploy.

### Residion Management portal

Resdion Management is the project I worked on for Transdev Digital. This massive web application was designed to take over from a group of legacy systems which the company Cabfind has been using internally for managing their middle man taxi business for the past 15 years. The new system has been built with a MVVM KnockoutJS frontend, REST web API backend and SQL server database. The new system allows Cabfind staff to manage supplier and client accounts, track vehicles, handle finance and much more.

### Residion supplier and client portals

The supplier portal is the front end for suppliers who are signed up to receive bookings from Cabfind and the client portal is for booking the taxis. These where developed using KnockoutJS, Typescript and Webpack

- POD server** POD Server is project I developed for Intergraph. The aim was to give their power plant project management software a new web interface. The software was originally developed using VBA and looked outdated. The new user interface was created using the latest web technologies, and the backend was accessed using REST web API's. Functionality included uploading of POD files, searching of the server's isometric project directories, drawing of POD images using canvas, editing of the Isogen styles, pinch/mouse scroll to zoom, and the ability to edit pipeline status properties in the Project Manager database. The result of this project was an intuitive improved product that can be accessed anywhere, on any size device which was especially handy for power plant designers as it could be used while walking the floor of the site using a table
- Nuget server** I have recently setup Nuget servers for Alias in order to streamline the build system. The previous system used for setting up the development environment was to set up a global side by side bin folder which all pieces of software are built into. This allows dependencies to be found however with the Nuget server all software has its own bin folder and the dependencies needed are grabbed at build time.
- Sports coach** Sportscoach is a web application I developed. It was developed to provide a virtual team environment to allow sports coaches to gather/post team statistics, Post articles and allocate workouts to their athletes. This project was developed using ASP.NET MVC 4 with use of the entity framework, along with many of the other technologies mentioned above. This project spanned over many months of my final university year and was one of the main contributors to my final grade.
- Bitcoin Mate** The Bitcoin mate windows phone 8 application was developed to allow users to keep up with the latest Bitcoin information. It uses the guardian, Twitter and Bitcoin JSON REST API's, data is saved to isolated storage and a web service is used to send push notifications to all users. This was developed using the Windows phone 8 SDK, Azure web services and Azure SQL Server database and a XAML front end.
- Other projects** There are several other projects worth mentioning including the Angular 7 Dotnet core template (<https://github.com/MarkPieszak/aspnetcore-angular-universal>) which I am one of the highest contributors to, a quiz based web application (PHP) where I worked as part of a team, a garden center E-Commerce website (ASP.NET web forms) , a studying advice website for students (PHP), a construction company website I managed to hit the first page of google for and task reminder desktop software (.NET).

## EXPERIENCE

2/18 – present (3 extensions) **MD Insurance**

### Wirral

MD Insurance are an insurance company that sell many different types of insurance covers relating to buildings. My roles during this contract included:

- Developing the Extranet web application
- Fixing bugs
- Working in TDD workflow
- Advising on technical solutions

The technologies I have been using most in this project are .NET Core, JavaScript, Angular, GraphQL and Aurelia.

The main piece of work for this project was developing an insurance quoting form. It was the most complicated UI I have worked on to date. I worked closely with BA's who took the original manual paper form which consists of many complicated interrelated data sections and which would be typically passed back and forth from client to business. We managed to fit it into a tidy wizard with a great user experience. The form has 100's of conditional fields, in line validation, scroll to errors on next and submit, complicated bespoke validations, iterative saving, several layers of conditional sections of forms, and many other features built in. The business during UAT the staffs feedback was "we don't need to be trained it's that intuitive".

11/17 – 2/18

**Betfred**

Wigan

Betfred is an online and store UK based bookmaker. I have worked on the trade team during my time at the company. My responsibilities in this role included:

- Adding features to the Betfred and Totesport web applications
- Fixing bugs
- Working in TDD workflow
- Advising on technical solutions

The technologies I have been using most in this project are .NET Core, Javascript, Angular, RabbitMQ and Sitecore.

The most challenging aspects in this role was understanding the hundreds of third party integrations, being able to add new integrations and to also work with an existing legacy system not designed to be unit tested so refactoring to enable tests without changing current functionality.

08/16 – 11/17

**Transdev Digital**

Liverpool city center

Transdev is one of the largest public transport operators in Europe. Transdev digital is where the company's software is developed. I worked entirely on the Residion project throughout my time at the company. My responsibilities in this role included:

- Working closely with BA's to implement features from the backlog
- Fixing bugs from the backlog
- Helping estimate large sections of the project
- Developing unit tests
- Coaching new junior developers coming onto the project

The technologies I have been using most in this project are .NET, SQL, Azure, KnockoutJS, Nancy, and DBUp, SQL. The most challenging work here was to help new starters get familiar with the project and up and running. I mentored several colleagues and helped speed up project timescales in doing so. I worked mostly independently for the first few months on this project and implemented a good chunk of the code base.

07/14 – 08/16

**Intergraph**

Runcorn, WA7

Intergraph are a worldwide software corporation who develop for a variety of industries. I worked in the process, power and marine side of things at Alias. Alias's specific focus is CAD software for the design of piping systems. My responsibilities in this role included:

- Discussing and implementing new projects or new features in current software using a variety of different programming languages and technologies
- Fixing bugs from either the backlog or for hot fixes
- I had to keep unit tests passing on specific pieces of software
- Assess colleagues code before check ins
- Regular communication with developers and testers in office and with teams around the world

Throughout my time at the company I worked on the POD server as well as SmartPlant3D, Isogen Configuration Panel, I-Configure, and the core Alias Libraries. Most of the work I have done has been using .NET however this role was very varied which is why my skills section is rather diverse. The most challenging of work tends to be for the Smartplant3D software, its size makes it difficult to work with. Intergraph have dozens of teams working on this software, it is made up of many different programming languages and requires additional measures for example gated check ins, specialized internal tools for development, regular communication with foreign developers, testers, consultants, etc.

I worked alongside an experienced team of skilled developers and testers adhering to the SCRUM methodology. The experience and knowledge I gained here has been invaluable.

## REFERENCES

Numerous professional and personal references are available and will be furnished upon request.