

**Christopher James Iveson**<https://chrisiveson.com/>

Senior Software Engineer / Lead Developer

**Brief****Hometown:** Birkenhead, United Kingdom **Date of Birth:** 22<sup>nd</sup> January 1980

A software development architect, leader, developer, and all-round IT enthusiast. Professional career consists of working mostly with Microsoft Windows operating systems and platforms (Microsoft.Net, Visual Studio, SQL Server, IIS etc), and occasionally using UNIX-based systems when required for certain development tasks (NPM, Python application hosting etc).

- Has an MSc Software Engineering Degree (with Merit) from Liverpool University
- Twenty years' experience in software development on both Microsoft and Unix-based platforms
- Language preference is C# (.NET Core 8), have several years' experience with C#, Python 3, C++ & extensive experience with SQL Server/Azure SQL and MySQL RDBMS
- Familiar with Microsoft ASP.NET Core WebAPI and MVC – implementing RESTful web services using WebAPI, along with traditional HTML/MVC approach using the Razor view engine, ASP.NET Web Forms, and LINQ, NHibernate and NUnit unit testing frameworks
- Also familiar with React, NextJS, Angular (including legacy Angular JS) and JQuery client-side frameworks, along with source management, build and deployment tools such as Git (with Bitbucket & GitHub), SourceTree, Gulp build/task automation engine etc.
- Practitioner of both Agile-based and plan-driven SDLC (Software Development Life Cycle) development methodologies using TDD/BDD
- Recent areas of interest include developing with Python Machine Learning toolsets, utilising NTLK with Scikit-Learn and Tensorflow

**Experience**

<b>Date:</b> Aug 23 – Nov 23 <b>Company:</b> - <b>Target:</b> Mobile/Web Users (React Native, React, .NET Core)	<b>Node Corporate / Tokyo Digital</b> Software development consultant for various React, React Native and Microsoft .NET Core projects.
<b>Date:</b> May 22 – Aug 23 <b>Company:</b> - G4S	<b>A Global Security Company with UK Origins</b> Developed an API along with other processes to communicate with a major CaSS provider.
<b>Date:</b> Jan 22 – May 22 <b>Company:</b> - <b>Target:</b> Mobile/Web Users (React Native, React, .NET Core 6, Docker, Postgres SQL, Twilio)	<b>SeerGuru Mobile &amp; Web Applications</b> Service Provider/Customer video-conferencing platform, built with React Native (for mobile) and React (for web) client-side frameworks. Backend developed using .NET/Postgres SQL, targeting an Amazon ECS cloud-based hosting environment. Video conference functionality achieved with the Twilio cloud-based comms SDK.
<b>Date:</b> Sept 21 – Present <b>Company:</b> - <b>Target:</b> Web Users (.NET Core 6, React/Typescript/NextJS, MySQL, AWS)	<b>Project Lomond Talent Management Solution</b> New competency management application developed with full SaaS-based architecture, deployed into Linux-based Docker containers. Follows a DDD approach, with application events posted to EventStore and used to update various projections in MySQL forming application dashboard management interfaces.
<b>Date:</b> Jan 21 – Dec 21 <b>Company:</b> GoJoe App Limited <b>Target:</b> Fitness Enthusiasts (React Native, Typescript, GraphQL)	<b>GoJoe GPS Tracker &amp; Chat React Native Mobile Application</b> Utilised the MapboxGL map rendering engine to display the path taken for a running, cycling, swimming or walking fitness activity, tracked using the background location provider of the mobile device. Various measurements of the activity are calculated in real time, such as total distance and calories burnt, and posted back to the central Amazon DynamoDB server using GraphQL.
<b>Date:</b> July 14 – Aug 21 <b>Company:</b> CompetencyIQ, UK <b>Target:</b> Web Desktop Users (ASP.NET MVC5, Azure SQL, C#, NHibernate, AngularJS, JQuery, HTML5)	<b>CompetencyIQ Talent Management Solution</b> Managed a team of four developers (including myself) to architect, develop and deploy the CompetencyIQ web application. Application hosted as an Azure App, modified heavily for US energy corps and utilised by corporation Business Units worldwide. Development team worked remotely, adhering to Agile development principles and communicating regularly using Skype.

## Experience (Continued)

<b>Date:</b> Apr 19 – Sept 21 <b>Company:</b> Equilibria, SGP (UK Based) <b>Target:</b> Web Desk top Users (ASP.NET Core 3.0 MVC/WebAPI, C#, Azure SQL, JQuery, Angular6, HTML5)	<b>Equilibria PDI 2020 Web Application</b> Similar to the previously developed Equilibria PDI application, implementing a responsive, Bootstrap-based user interface with content available to be purchased at defined subscription tiers. The content of the survey and results across multiple languages and subscription tiers customisable via a web-based administrative application.
<b>Date:</b> Nov 20 – Dec 20 <b>Company:</b> Fremantle <b>Target:</b> Fremantle Customers (Python 3.8, Flask, SQLAlchemy, MySQL, Angular 8, Nginx)	<b>Fremantle Watch Party Online Synchronised Viewing Solution</b> Inspired by circumstances arising from the national lockdown, this web application enabled a Fremantle sales representative to control the Brightcove video being played in multiple end-user's web browsers simultaneously. The sales rep could select a video from a playlist, then play, pause, scan, mute and unmute the video while giving a verbal presentation on separate VC (video conferencing) solution. This separate mechanism to playback video produced by the company was required to avoid the degradation in video quality typically experienced if the video was delivered to end users using the VC solution alone.
<b>Date:</b> Oct 19 – Sept 20 <b>Company:</b> G4S EM, UK <b>Target:</b> G4S EM Core Business (Microsoft.Net, C#, SQL Server 2012, Jenkins/Groovy, TFS/DevOps API's, MSMQ's/BizTalk Server)	<b>A Global Security Company with UK Origins</b> Implemented a bespoke CI/CD system which automated the both the build of a legacy software system, along with its deployment out to various hosted environments.
<b>Date:</b> Feb 19 - Apr 19 <b>Company:</b> - <b>Target:</b> Web Desktop Users (Python3/Flask/SQLAlchemy, MySQL 5.7, Angular6, JQuery)	<b>CyberCastr Cyber Security Survey Application</b> Similar to CompetencyIQ, allows the deployment of a survey to a user base thus allowing an organisation to gather and review intelligence data on competency levels in particular areas i.e. Cyber Security, GDPR etc.
<b>Date:</b> Nov/Dec 18 <b>Company:</b> Gilead, London <b>Target:</b> Web Desktop Users (ASP.NET Core 2.1 MVC/WebAPI, C#, SQL 2012 Angular6, JQuery, HTML5)	<b>"Hydra" Marketing Campaign Management Application</b> Allowed Gilead to plan and manage marketing campaigns for its various pharmaceutical products across the globe.
<b>Date:</b> Jan 14 – June 14 <b>Company:</b> WebMedia, Chester <b>Target:</b> Web/Mobile Users (Sharepoint 2010/2012, C#, JQuery, HTML5)	<b>WebMedia (now WMReply) Sharepoint Applications</b> Developed various SharePoint-based mobile and desktop web applications for use by Vodaphone and British Gas.
<b>Date:</b> May 13 – Dec 13 <b>Company:</b> Bet365, Stoke <b>Target:</b> Web/Mobile Users (VB.NET Web Forms/MVC-Hybrid, SQL 2008, JQuery)	<b>Bet365 Mobile Web Application</b> Assisted with the development of the mobile Bet365 web application. Helped to integrate the new "Betslip" Push-based web application with the existing Bet365 mobile web application user interface.
<b>Date:</b> Mar 12 – Aug 12 <b>Company:</b> Equilibria, Bangkok <b>Target:</b> Web Users (C#, ASP.NET MVC3, SQL 2008, JQuery, HTML5)	<b>Equilibria JPDI (Junior PDI) Application</b> Similar to the below PDI application, but based at a younger audience. Reuses custom assemblies from the former PDI application, but with a more active HTML5 front-end component redeveloped entirely using ASP.NET MVC3.
<b>Date:</b> Jan 10 – Apr 13 <b>Company:</b> Equilibria, Bangkok <b>Target:</b> Web Users (C#, ASP.NET v2.0, SQL 2005, JQuery)	<b>Equilibria PDI (Personality Diversity Indicator) Application</b> A publicly available web-based questionnaire which evaluates the personality of the user through a series of most-like/least-like questions. Results are presented in a pie chart alongside the associated personality descriptor matching the user's results. The same chart and descriptor can be optionally emailed to the user. TDD Red/Green/Refactor approach adopted when implementing domain logic.
<b>Date:</b> Mar 08 – Present <b>Company:</b> Equilibria, Bangkok <b>Target:</b> Offshore Industry (C#, ASP.NET v4.0, C++, SQL 2008/2005, SSRS, VBA/VSTO)	<b>Equilibria iCU Safety Observation System</b> Uses OMR and ICR technology to recognise marks and handwriting on custom-designed cards, populating an SQL Server database. Database contents reviewed through ASP.NET web reporting application which integrates custom SSRS reports. Pair-programming and TDD used when implementing key application assemblies

## Experience(Continued)

<b>Date:</b> Oct 07 – Dec 07 <b>Company:</b> Equilibria, Bangkok <b>Target:</b> Web Users (C#, ASP.NET v2.0 w/AJAX.NET, SQL 2005, JQuery)	<b>Equilibria Online Bookings eCommerce Application</b> A publicly available web based application allowing users to book seats on well control courses as specified by Equilibria admin staff through an admin site. Accepts payments from users using the Google Checkout Payment Gateway API.
<b>Date:</b> Sept 03 – Sept 07 <b>Company:</b> HMC / Satcom, Bangkok <b>Target:</b> Satcom Internal Staff (VB.NET, Microsoft.NET v2.0, SQL 2005, VB6, VBA/VSTO)	<b>HMC/Satcom Airtime Invoicing System</b> Lead developer in a team of 4 other Thai developers on solution which collected call data records in/from various formats/sources, populating data into SQL Server database which then calculated invoices by applying call data to a large number of customer billing plans. Final invoices produced both online and in PDF format. At minimum was producing over 1,500 invoices from 100,000 CDR records per month.
<b>Date:</b> Oct 05 – Aug 06 <b>Company:</b> HMC, Bangkok <b>Target:</b> Satcom Customers (VB6, C++, implemented custom SMTP & POP3 servers)	<b>SmartMail / SmartSync</b> Ship to shore store and forward email solution using custom sliding window protocol to optimise expensive satellite airtime usage. Also has ability to automatically send & receive files from and to the vessel's network in order to automate 3 <sup>rd</sup> party applications. Was installed and used frequently on over 20 vessels.
<b>Date:</b> Jun 05 – Sept 05 <b>Company:</b> HMC, Bangkok <b>Target:</b> Customers (VB6, Microsoft Office 2000 SDK)	<b>HMCFileSync</b> Previous version of the above automated file transfer solution for use with the existing mail software, HMCmail.
<b>Date:</b> Jun 01 – Sept 07 <b>Company:</b> HMC, Bangkok <b>Target:</b> Customers (ASP, VB6, COM/ActiveX, SQL 2000, VBA/Office 2000 SDK)	<b>HMCforms</b> Architect and lead developer of a ship-to-shore data collection solution whereby custom electronic forms are sent to vessel and completed by vessel users daily. Completed Outlook forms are sent back to shore using HMCmail, where the data is then populated into customer database and viewed using custom ASP.net web application developed in-house. Typical examples of such applications include daily performance (Noon/Midnight) reporting and requisition/procurement systems. Custom solutions were developed for several major shipping companies serving over 500 vessels.
<b>Date:</b> May 99 – Dec 99 <b>Company:</b> Rydex, Liverpool <b>Target:</b> Customers (VB5)	<b>Rydex Comtext &amp; Telex Mail Gateways</b> Email conversion gateway converting SMTP email to and from Comtext formats, and communicating with Telex modem for transmitting on existing Telex networks.
<b>Date:</b> Jan 01 – May 01 <b>Company:</b> Rydex, Liverpool <b>Target:</b> Customers (VB6, COM/ActiveX)	<b>Rydex Express Mail Client</b> Graphical User Interface and SMTP/POP3 mail server for use with the Rydex Ship-to-Shore email product.
<b>Date:</b> Jun 98 – May 99 <b>Company:</b> Marinet/GW, UK <b>Target:</b> Customers (VB5)	<b>Groupwise Message Archive System</b> Database system for archiving and viewing all email messages transmitted on customer's Groupwise email network.
<b>Date:</b> Jun 98 – May 99 <b>Company:</b> Marinet/GW, UK <b>Target:</b> Customers (VB5)	<b>X.400 Comtext &amp; Telex Mail Gateways</b> Similar to the above but for use with the Marinet X.400 ship-to-shore email network.

## Education

- MSc Masters in Software Engineering at Liverpool University, graduating with Merit in December, 2012.
- Active participant at <https://www.coursera.org> and <https://www.pluralsight.com>

## References

- Can be supplied on request for any of the roles mentioned above.