Josh Comley

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I am a passionate, full-stack (C#, Angular, React, SQL Server, ASP.NET, DevOps) developer and technical architect based in Worcester, UK.

Experienced in agile, mentoring, training other developers, team leading, managing stakeholders and working alone off my own initiative.

Contribute regularly to the open source community.

Excellent communication skills, both written and verbal.

Really love coding!

Hobbies include woodworking, photography, making terrible music in my home studio and 3D printing/design (using OpenSCAD, 3D design programming language!).

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✓ .NET Core (C#) 8 years

✓ SQL Server Over 10 years OData Over 10 years

TypeScript 8 years ✓ Angular 2-18 8 years

✓ ASP.NET MVC Over 10 years

Azure 8 years ✓ DevOps 6 years Finance 3 years

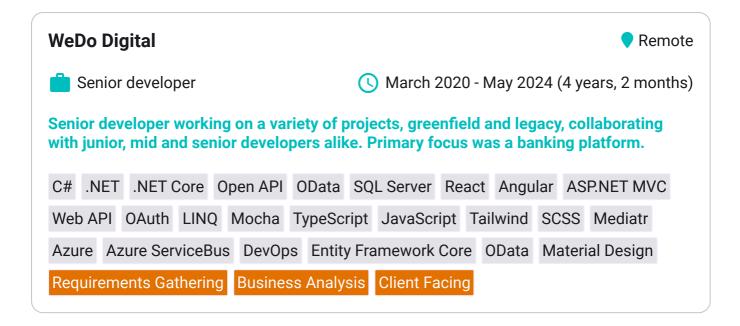
JavaScript Over 10 years

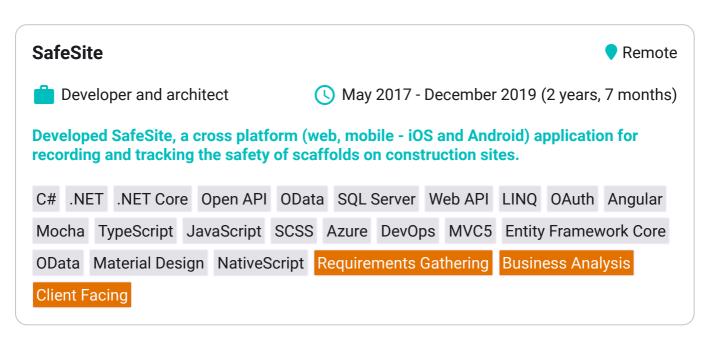
✓ Web API 8 years ✓ OAuth 8 years Open API 7 years NativeScript 6 years AngularJS 3 years Xamarin 2 years

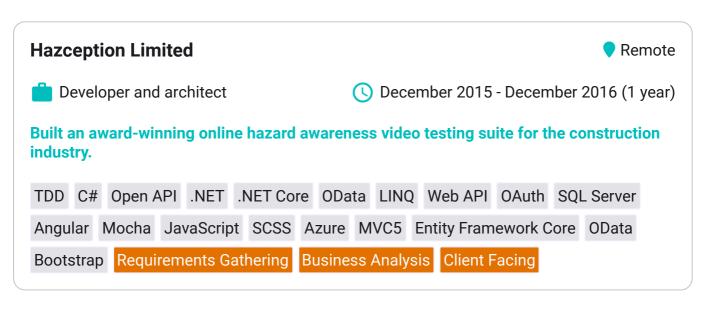
- in uk.linkedin.com/in/joshcomley
- twitter.com/joshcomley
- stackoverflow.com/users/64519/joshcomley

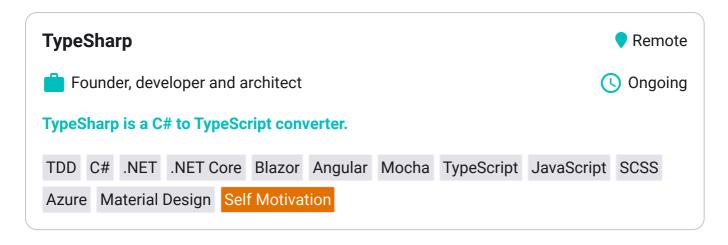
Quick summary of recent years

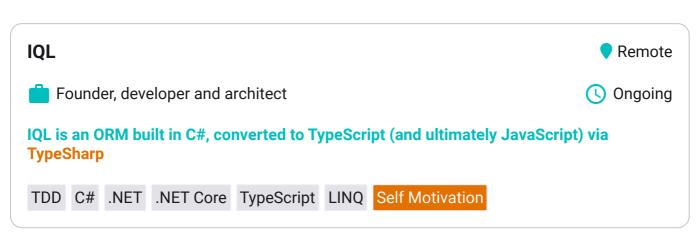
Full, detailed work history follows this section











Full work history

WeDo Digital

Remote



Senior developer

(\) March 2020 - May 2024 (4 years, 2 months)

Senior developer working on a variety of projects, greenfield and legacy, collaborating with junior, mid and senior developers alike. Primary focus was a banking platform.

Aside from .NET Core and SQL, this role heavily employed a spectrum of web technologies - Angular, React, Vue, ASP.NET MVC.

However, over time my main focus became working on an existing banking platform.

Initially the task was to migrate the platform from using custom SQL written in Dapper to Entity Framework. Later, the work moved to the addition of credit cards and business management to the platform. This required working with the backing bank to figure out compliance, regulatory and technical details.

Over time, I introduced over 1,000 tests into this banking system.



C# .NET .NET Core Open API OData SQL Server React Angular ASP.NET MVC Web API OAuth LINQ Mocha TypeScript JavaScript Tailwind SCSS Mediatr Azure Azure ServiceBus DevOps Entity Framework Core OData Material Design



Business skills

Requirements Gathering Business Analysis Client Facing

Reference

Lee Turver +44 7590 061919

Meadowbank House Meadowbank Business Park, Tweedale Way, Oldham, England, OL9 8EH

SafeSite





Developer and architect

May 2017 - December 2019 (2 years, 7 months)

Developed SafeSite, a cross platform (web, mobile - iOS and Android) application for recording and tracking the safety of scaffolds on construction sites.

The web app was built using Angular, the API using .NET Core, Entity Framework Core and OData and the mobile app using NativeScript and Angular (sharing most of the code with the web app).

It's key tenets include:

- Fully flexible reporting via OData and a unique report generation system
- Entire database scaffolded out via user-friendly web-based Angular management app, yet fully customisable as required
- Tagging of photos taken on-site, highlighting problems
- Full offline support on the phone apps, synchronising complex data structures, ensuring a "work-anywhere" app



C# .NET .NET Core Open API OData SQL Server Web API LINQ OAuth Angular Mocha TypeScript JavaScript SCSS Azure DevOps MVC5 Entity Framework Core OData Material Design NativeScript



Business skills

Requirements Gathering Business Analysis Client Facing

Reference

References can be provided upon request

Hazception Limited

Remote

Developer and architect

December 2015 - December 2016 (1 year)

Built an award-winning online hazard awareness video testing suite for the construction industry.

Managers can upload their own videos, highlight and tag hazards throughout the video and then create exams for potential on-site workers to assess their ability to spot hazards within their own work-site.

Also built the brochure site linked above.

Build:

- An .NET Core and SQL Server web application with an AngularJS and HTML5 front-end web application
- Web API, .NET Core based backend for above web site using Entity Framework Core, Code First and SQL Server



TDD C# Open API .NET .NET Core OData LINQ Web API OAuth SQL Server Angular Mocha JavaScript SCSS Azure MVC5 Entity Framework Core OData Bootstrap



Requirements Gathering Business Analysis Client Facing

Reference

Simon Walker +44 (0) 7983 497008

TypeSharp

Remote

Founder, developer and architect

(Ongoing

TypeSharp is a C# to TypeScript converter.

Although it has an API, for demonstration purposes it has been wrapped up into an Angular application. You can import and export workspaces, all cached in the browser.

See app.typesharp.co for demo (very early alpha)

Tech stack

TDD C# .NET .NET Core Blazor Angular Mocha TypeScript JavaScript SCSS

Azure Material Design

Business skills

Self Motivation

IQL



Founder, developer and architect

Ongoing

IQL is an ORM built in C#, converted to TypeScript (and ultimately JavaScript) via TypeSharp

http://iql.rocks

This project means the same code can run in .NET, Node, the browser and even phones via tools like NativeScript, React Native, Xamarin, Cordova etc.

It can map to any data endpoint (custom providers can be written) and enables Entity Framework style querying from TypeScript/JavaScript.

Getting data

```
let todos =
  await db.Todos
  .Where(todo => todo.Deadline < new Date() && todo.Name.includes("front end"))
  .OrderBy(todo => todo.EstimatedDays)
  .ToIqlAsync();
```

Modifying data

```
let todo = await db.Todos.GetWithKeyAsync(1234);
todo.Name = "A new name";
let result = await db.SaveChangesAsync();
if(result.Success) {
   // ...
}
```

IQL supports offline data synchronisation and is provided out-of-the-box with an OData provider.

IQL was built heavily with TDD and has around 600 unit tests. The tests also convert to TypeScript and run in Mocha.

Tech stack

TDD C# .NET .NET Core TypeScript LINQ



Self Motivation

Self-employed (Brandless Limited)



Developer and architect



Since 2017 I have been building up a portfolio of products and tools.

IQL Forms

Using IQL as an front-and-back-end ORM, and OData as the pipeline, IQL Forms is a business application generator.

It is able to use metadata supplied from IQL about your data structure and configuration and generate web and phone applications dynamically. Information about permissions and validation are processed both in the front end via JavaScript/TypeScript and the back end via .NET.

The web applications are generated using Angular, and the mobile applications for iOS and Android using NativeScript combined with Angular and supports:

- ✓ 100% dynamic reporting on anything with export to PDF, Word and Excel
- ✓ Integration with DocNet for customised report templates
- File management
- Users management
- OAuth authentication
- ✓ Full CRUD
- Permissions
- Validation
- Material Design
- Login via text message or password
- Web, iOS and Android
- Easy developer customisation
- ✓ Themes

Demo available upon request.

DocNet (soon to be open-sourced)

DocNet is a Word document templating tool built in C# and converted to TypeScript via TypeSharp.

TsBeautify (open-source)

TsBeautify (github.com/joshcomley/tsbeautify) is an open-source code beautifier written in C# and converted to TypeScript via TypeSharp. This also runs in .NET, Node, web browsers and on phones.

As part of .NET Core development, porting and creating world-first .NET Core libraries.

- Implementation of custom and comprehensive SQL Server based security later in Microsoft's Entity Framework Core
- Bug fixes submitted for Microsoft's Entity Framework Core
- .NET Core port of Microsoft's .NET OData implementation
- .NET Core port of SendGrid mailing API
- .NET Core port of Microsoft's System.Net.Mail (SMTP implementation)
- .NET Core port of Google's HTML Compressor



TDD C# .NET .NET Core LINQ TypeScript JavaScript Angular Azure Code First MVC5 SCSS Entity Framework Core SQL Server



Self Motivation

Sciensus Ltd.

Brighton, UK

Developer and architect

(Nay 2013 - October 2013 (6 months)

Developer and lead developer on software primarily used in hospitals to aid disease analysis.

My work at Sciensus ranged from rapid creation of a fully customised call centre web application to ensure swift and accurate recall of faulty medical equipment, to a web based disease tracking system for Hepatitis.

Good UX, high security and data anonymity were all essential when building these applications as they were to be used in high pressure, security critical environments.

I introduced the team to a number of principles including DRY, agile and a collection of newer (at the time) technologies such as Bootstrap.

My role also involved mentoring other developers there

Tech stack

TDD C# .NET LINQ Web API SQL Server JavaScript Agile ASP.NET MVC

Bootstrap Client Facing XHTML SCSS iQuery

Business skills

Mentoring Team Training Client Facing

Reference

Kim Whaling +44 (0) 333 103 9780

Sciensus, First floor office, Chelsea House, 8-14 The Broadway, Haywards Heath, RH16 3AH

Freedman International Ltd. / Kaboodle

London, UK



Developer and architect

(\) Mar 2010 - April 2013 (3 years, 1 month)

Developer and lead developer on software primarily used in hospitals to aid disease analysis.

N.B: Freedman formed a start-up called Kaboodle for their new project. As such although I was at the same office I was technically in a different role and company as of March 2011

Lead developer and product architect a major in house product using C# 3.5/C# 4.0, WCF and MVC

Freedman is involved with helping multinational companies achieve their global marketing goals. As such, Freedman has undertook a challenge to build a web application to facilitate this, encouraging communication and visualising every aspect of the global marketing process. They envisage a product underpinning the company's finances in the years to come.

My role was to work as technical lead for the team of 5 developers and architect on the project from start to finish. The front end to the application was built in MVC 4. This included managing and training team members in Ukraine.

The only decision beyond my control was the employment of SharePoint 2010 as a backend for the data, however all SharePoint access was abstracted away via an OData driven RESTful WCF service authenticated using OAuth – in other words we created a full, public (secured) REST API for the application. SharePoint is completely dynamic; the customer can change their experience very easily, adding columns to existing "tables", even new "tables" of data and so on. The API had to reflect this live, delivering different data and metadata whilst the web application had to be robust enough to survive such changes in its underlying schema without requiring a reboot.

This particular project was one of the most challenging yet of my career due to an incredible number of hidden complexities and limitations within the underlying key technologies when dealing with completely dynamic data feeds. It has also given me excellent experience leading and managing a team of developers.



Tech stack

C# .NET Web API LINQ OAuth Mentoring Agile BDD TDD SOLID REST Team Training OAuth OpenId MVC 4/3 C# 4.0 C# 3.5 ASP.NET Client Facing SharePoint 2010 Continuous Integration SQL Server XHTML CSS JavaScript jQuery WinForms WebForms Technical Writing LINQ



Business skills

Mentoring Agile Team Training Client Facing Continuous Integration

Technical Writing

Reference

Dave Ashenhurst +447966582174

India House, 45 Curlew Street, London SE1 2ND, United Kingdom

Paxton Access Ltd.

London, UK



Developer and architect

U June 2007 – Mar 2010 (2 years, 9 months)

Built a variety of internal management web applications whilst maintaining existing website.

My work here has involved the lead development of over 50 web applications using ASP.NET and SQL Server, and over the last year ASP.NET MVC with jQuery.

Another key project includes the development of on an online system for controlling and reporting on remote security systems – opening doors, reporting on who is in a building etc.

Many examples of work can be given from time at this company; from web based complicated mathematical business projections and visualisations, complete task management tools and a custom blog to detailed sales history applications and an internal knowledge base. Work here is pushed out at a high standard and includes the design of all applications to very tight deadlines, through a mixture of agile and classic development structures. Once published, applications are often immediately used by up to 2500 people.

Tech stack

C# .NET C# 3.5 ASP.NET SQL Server HTML XHTML CSS JavaScript jQuery MVC ASP ASP.NET WinForms WebForms Technical Writing Unit Testing Silverlight LINQ



Business skills

Team Training Business Analysis Requirements Gathering Mentoring Waterfall

Reference

Adam Stroud +441273 811011

Paxton House, Home Farm Road, Brighton, BN1 9HU

Fit Systems Limited

Brighton, UK

Developer and architect

(April 2008 – December 2008 (8 months)

Built a holiday website with custom build CMS.

Development and client facing role – helped design and entirely developed the holiday websites found at http://www.purezanzibar.com and http://www.puremozambique.com. Please note these websites have since been modified and do not represent my original work! These websites both run from a common code-base and more "themed" websites can be created from the comprehensive CMS at a later date.



C# .NET C# 3.5 SQL Server HTML XHTML CSS JavaScript Client Facing

WebForms LINQ

Business skills

Client Facing Waterfall Business Analysis Requirements Gathering

Reference

Ragnar Barnsby 0845 603 79 26

FITSystems Ltd, 16 Seville Street, Brighton, East Sussex, BN2 3AR

Riot Creative Limited

Brighton, UK

Developer and architect

(Section 2008 – December 2008 (8 months)

Developed a pub/very-mini-social website and associated CMS (Content Management System)

Although this is no longer live due to the client not paying Riot Creative Limited, it can still be found at the test site: http://themontague.stage.riotcreative.co.uk/

This project had a two week deadline to build a pub website with a slight social aspect along with an associated CMS to manage the various pages on the site. CMS can be demonstrated.

I also both helped design and entirely built the company website (http://www.riotcreative.co.uk). The site is XHTML 1.1 compliant and works 100% in all the major browsers (IE6, IE7, IE8, Chrome, Firefox 2, Firefox 3, Flock, Opera and Safari).



C# .NET C# 3.5 SQL Server HTML XHTML CSS JavaScript Client Facing

WebForms LINQ

Business skills

Client Facing Waterfall Business Analysis Requirements Gathering

Reference

Victoria Boarer +447789540894

Riot Creative Limited, 40 Clarendon Villas, Hove. BN3 3RA

Cubeworks Limited

Brighton, UK

Developer and architect

March 2006 - June 2007 (1 year, 2 months)

Build database driven web applications in ASP.NET using C# and SQL Server

Working in an agile manner with project managers, later on as a team leader. The core of my work here has been ASP.NET web development with SQL Server, although included development of a few win forms C#.NET applications. Work was also heavily client facing, being involved in all aspects from pitching work to clients to negotiating through projects.



C# .NET SQL Server C# 3.5 HTML XHTML CSS JavaScript Client Facing

WebForms LINQ

Business skills

Client Facing Waterfall Business Analysis Requirements Gathering

Reference

Alex Cowell +441273 733373

Cubeworks Ltd., 18 Marine Parade, Brighton. BN2 1TL

Tracalert Limited

Brighton, UK

Developer and architect

(July 2006 – October 2006 (4 months)

Build a customer management system in ASP.NET and SQL Server for call centre

Designing and building a database driven customer management system with various tiers of user authorization and user impersonation for administrators. Highlights include addition of an ASP.NET text-to-voice service.

Tech stack

C# .NET SQL Server HTML XHTML CSS JavaScript ASP.NET WebForms

Business skills

Client Facing Waterfall Business Analysis Requirements Gathering

Reference

John Thurgood +447767 678678

Tracalert Ltd., 15 London Street, Chertsey, Surrey. KT16 8AP

Dealogic

London, UK



U June 2005 - March 2006 (9 months)

Design and build tools to help maintain finance customers' accounts

Work here involved building complex multi-threaded GUI tools to help maintain national and international banks' accounts with Dealogic in a mix of WinForms and ASP.NET applications, using .NET remoting.

Tech stack

C# .NET SQL Server HTML XHTML CSS JavaScript C++ ASP.NET WinForms

WebForms

Business skills

Waterfall

Reference

Simon Hutton +4420 7379 5650

Dealogic Ltd., 231-232 Strand, London. WC2R 1DA

East Sussex County Council

Lewes, UK

Junior Developer

U June 2003 - August 2003 (3 months)

Provide technical support and assistance for all council staff

Provided first (and some second) line technical support in a team of four for the entire employee population of East Sussex County Council for any IT (hardware and software) related problems. Trained on call logging system.



Business skills

Client Facing

Reference

Linda Caola +441273 481234

East Sussex County Council, Lewes

Education

Computer Science and Artificial Intelligence

Sussex University 2002 - 2005

Focus

Java, C++, Haskell, Matlab

Dissertation

An embedded C application to control media computers via Bluetooth on Symbian based smart phones.

Get in touch

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- in uk.linkedin.com/in/joshcomley
- twitter.com/joshcomley
- stackoverflow.com/users/64519/joshcomley