

# Michael Jerred

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## Profile

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I am a London based contract web developer with 19 years of development experience, 10 of which have been working professionally on a variety of web applications. I first started coding when I was a kid and it has been a lifelong passion, as a result I am able to pickup new languages and technologies with ease.

## Expertise

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- ✧ Angular, Typescript, RxJs, Electron, Ngxs, Javascript, HTML, CSS, SASS/SCSS
- ✧ Node.js, Express, C#, LINQ, Java
- ✧ SQL, Entity Framework, MongoDB, Neo4j, Apache Solr, ElasticSearch
- ✧ Moq, NUnit, Jasmine, Karma
- ✧ N-Tier, Event Sourcing, DDD, CQRS
- ✧ Windows, Linux, Google Cloud Platform, Docker, AWS, Kubernetes

## Achievements

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- ✧ Senior front-end developer and architect of a greenfield Angular project for Deloitte & AstraZeneca.
- ✧ Led the development and designed the architecture for a greenfield project with Centaur Media. By introducing Angular to the company and structuring work so that it could be done in parallel more effectively, there were significant gains in productivity and these methodologies saw continued use in future projects.
- ✧ Built an open-source npm package to provide strongly typed reactive forms for Angular, and created a pull request which was helpful in adding this feature to the official code base (coming in Angular 14!)
- ✧ Made an open-source contribution to the Angular library, adding an option to prevent events from being emitted when adding/removing form controls.

# Commercial Projects

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## Contract: Econ

August 2021 – May 2022

Centaur Media

I built several pieces, including a website CMS + front-end, and a SAML integration. Front-end technologies used include Angular and C#.

## Permanent Role: Voice API

June 2020 – August 2021

Vonage

I joined the Voice API team at Vonage, building an application that allows users to interact with SMS and voice phone calls via a REST API. The job is mainly working with Java, AWS, and Kubernetes. Unit testing was done with spock & groovy, and end-to-end tests with Python.

## Contract: TPG

Initially: September – December 2019

Centaur Media

Extension: to April 2020

I came in to help with the development of a new CMS project using Angular, Typescript, C#, SQL, Elasticsearch, and AWS Lambda. Unit testing was done with Jasmine & Moq.

## Contract: Merlin

Initially: November – December 2018

Deloitte & AstraZeneca

Extension: to May 2019

Extension: to September 2019

I was the principal front-end developer and architect on a new tool to calculate the costs of clinical trials. I was responsible for structuring the front-end code (Angular 7 & Typescript), mentoring other developers, as well as writing code. I also did some work on the back-end (Java, MongoDB) at times when the project required more resources in that area. Front-end unit testing was done with Jasmine.

## Contract: XpKit Analytics Library

May 2018

Imagination

I built a library to replicate the functionality of the [segment.io analytics library](#), but with some adjustments. I built it as a node.js package using Typescript, complete with Jasmine unit tests and generated documentation.

## Contract: Dragon CMS Project

November 2016 – July 2017

Centaur Media

I worked on building a large new project built using Domain Driven Design, event sourcing and CQRS. Event messages were sent from the browser to the server via WebSockets, so that multiple users on the site would be able to see each others changes in real time. The front-end was built using Angular 4, and the back-end using C# Web API and SQL Server. My specific role was to build parts of the front and back-end, advise on architectural

decisions, and create a tool to perform data migration. Unit tests were written using Moq and Jasmine.

## Permanent Role: The Lawyer Market Intelligence

October 2015

Centaur Media

I was the lead developer on this brand new site, which including building a custom CMS. I designed the architecture for the front-end with a combination of AngularJs, LESS and Typescript; and built a skeleton back-end to interface with the database. After this initial phase the other developers joined in and we each worked on separate modules. Using this approach we were able to develop with a high degree of parallelization, and finished the project ahead of schedule. Unit testing was done with Moq and Jasmine.

## Open Source / Side Projects

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### angular

February 2021

I opened a pull request to add types to Angular form controls, based off of my npm module `ngx-strong-forms`. This set the groundwork for development of the feature by Google, which will be available from Angular 14.

### angular

June 2019

I made a contribution to Angular, adding an option to prevent events from being emitted when adding/removing form controls.

### Glint

September 2019 – Now

I am building a cross-platform GUI for git using NodeJS Electron and Angular.

### GWToolboxpp

July 2016 – April 2018

I contributed to a video game modification project using C++ and x86 assembly.

## Qualifications

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2008 - 2012 **MSci. Mathematics and Physics**

*University of Bristol*

2008 **UK Physics Olympiad**

Gold medal & one of 15 chosen to attend the International Olympiad preparation camp

*University of Oxford*

2006 - 2008 **5x A2 Level, Physics Advanced Extension Award**

Physics, Chemistry, Maths, Further Maths, Further Maths Additional  
*The Manchester Grammar School*