

# Michael Jerred

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## Profile

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I started coding as a kid almost 20 years ago, and for the past 9 have been working as a professional software engineer.

I enjoy reading about maths, physics, philosophy, and computer science. I also love music, and have spent a lot of my free time over the past decade practising break dance.

## Relevant Software Knowledge

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- ✧ Angular, Typescript: strong knowledge & experience, some contributions
- ✧ Functional coding: extensive RxJS & LINQ, some Haskell
- ✧ REST API: extensive C#, Java with Spring, Node.js with express
- ✧ Deep learning: some Python & NumPy

## Project Highlights

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- ✧ Built an open-source npm package (ngx-strong-forms) to provide strongly typed reactive forms for Angular, and opened a corresponding Angular pull request based off of this work ([github.com/angular/angular/pull/40772](https://github.com/angular/angular/pull/40772)).
- ✧ Senior front-end developer and architect of a greenfield Angular project for Deloitte & AstraZeneca to help estimating the cost of clinical trials.
- ✧ Led the development and designed the architecture for a greenfield project with Centaur Media. With this project I introduced AngularJS and Typescript to the company, and by 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.
- ✧ 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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## Web Developer (Contract)

April 2021 – now

Centaur Media

I am currently working as a contract developer on a couple of projects at the company with tight deadlines. Technologies include Angular, Typescript, C#, SQL, and Elastic Search.

## Senior Java Engineer

June 2020 – April 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 was mostly working with Java, with some work involving Go, AWS/Kubernetes, Terraform, and Python.

## Web Developer (Contract)

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, and Elasticsearch. Unit testing was done with Jasmine & Moq.

## Senior Front-end Engineer (Contract)

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 & Typescript), mentoring other developers, as well as writing code. I also did 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.

## Web Developer (Contract)

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.

## Full-stack Web Developer

October 2015

Centaur Media

I was the lead developer on a 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 Projects

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### glint

September 2019 – Now

I am building a cross-platform GUI for git using Node.JS Electron and Angular. This isn't actually open-source yet, but you can view the code using this private link.

### angular

February 2021

I made a contribution to Angular, adding an option to prevent events from being emitted when adding/removing form controls. I also have an open pull request to add strong types to angular's forms.

### DefinitelyTyped

September 2020

A couple of contributions to the Typescript typings repository.

### ngx-strong-forms

March 2019

I built a Typescript node.js package that provides strongly-typed reactive forms for Angular.

### GWToolboxpp

July 2016 – April 2018

I made contributions 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*